

## Appointment

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**From:** Hladick, Christopher [hladick.christopher@epa.gov]  
**Sent:** 11/14/2018 12:30:43 AM  
**To:** Hladick, Christopher [hladick.christopher@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Pirzadeh, Michelle [Pirzadeh.Michelle@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Forsgren, Lee [Forsgren.Lee@epa.gov]  
**Subject:** Pebble Options/ **Conference Line/Code / Ex. 6**  
**Location:** R10SeaRA-Room-21Tahoma-VTC/R10-Rooms-Restricted  
**Start:** 12/12/2018 9:00:00 PM  
**End:** 12/12/2018 10:00:00 PM  
**Show Time As:** Busy

POC David Allnutt

Patty McGrath  
Palmer Hough (HQ-OW – by phone)  
Ashley Palomaki  
Erik Peterson  
Allyn Stern  
Cara Steiner-Riley  
Michelle P.

## Appointment

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**From:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Sent:** 9/18/2018 11:09:44 PM  
**To:** Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]  
**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]  
**Subject:** Bristol Bay Check-in  
**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center  
**Start:** 9/25/2018 4:00:00 PM  
**End:** 9/25/2018 5:00:00 PM  
**Show Time As:** Tentative

**Recurrence:** Weekly  
every 2 week(s) on Tuesday from 9:00 AM to 10:00 AM

### Agenda

Permit Oversight/ NEPA Review Team

Scoping Document

Preliminary EIS review

Alternatives

Site Visits

Schedule

404(c) Team

FOIA

Litigation hold

Representative DeFazio and Senator Carper letter response

Conservative group letter to EPA

External Meetings

External Correspondence

**→ Join by Phone**

Conference Line/Code / Ex. 6



## Conference Line/Code / Ex. 6

### → Meeting Organizer

Erik Peterson, USEPA (206) 553-6382 office

## Appointment

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**From:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Sent:** 9/18/2018 8:30:45 PM  
**To:** Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]  
**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]  
**Subject:** Bristol Bay Check-in  
**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center  
**Start:** 9/25/2018 4:00:00 PM  
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### Agenda

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404(c) Team

FOIA

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External Meetings

External Correspondence

### → Join by Phone

Conference Line/Code / Ex. 6

## Conference Line/Code / Ex. 6

### → Meeting Organizer

Erik Peterson, USEPA (206) 553-6382 office

Message

---

**From:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Sent:** 9/21/2018 12:56:57 AM  
**To:** Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]  
**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]  
**Subject:** RE: Bristol Bay Check-in

We are postponing this check-in until 10/9 due to scheduling conflicts.



**Erik Peterson**, NEPA Reviewer  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-6382

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-----Original Appointment-----

**From:** Peterson, Erik  
**Sent:** Tuesday, June 12, 2018 4:15 PM  
**To:** Peterson, Erik; Allnutt, David; Anderson-Carnahan, Linda; McGrath, Patricia; Palomaki, Ashley; Steiner-Riley, Cara; Lindsay, Andrea; Skadowski, Suzanne; Nogi, Jill; Douglas, Mark; Vaughan, Molly; Hough, Palmer; Nalven, Heidi; Fordham, Tami; Stern, Allyn  
**Cc:** Detwiler, Susan K.; Chu, Rebecca  
**Subject:** Bristol Bay Check-in  
**When:** Tuesday, September 25, 2018 9:00 AM-10:00 AM (UTC-08:00) Pacific Time (US & Canada).  
**Where:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

→ **Join by Phone**

**Conference Line/Code / Ex. 6**

→ **Meeting Organizer**

Erik Peterson, USEPA (206) 553-6382 office

## Appointment

---

**From:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Sent:** 12/11/2018 6:52:53 PM  
**To:** Peterson, Erik [Peterson.Erik@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]  
**CC:** Stern, Allyn [Stern.Allyn@epa.gov]  
**Subject:** Pebble Options Hladick and Forsgren Briefing Preparation  
**Location:** R10Sea-Room-14WallaWalla/R10-Rooms-Service-Center  
**Start:** 12/11/2018 11:30:00 PM  
**End:** 12/12/2018 12:30:00 AM  
**Show Time As:** Busy

Purpose is to provide an opportunity for us as a group to talk again prior to briefing Hladick and Forsgren. Erik is teleworking and will call-in.

### Agenda

- Confirm key goals for Hladick and Forsgren briefing.
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  -
- Discuss approach to the briefing itself
- Dry run of key parts of the presentation if appropriate
- Next steps

## Deliberative Process / Ex. 5

Bristol Bay - Briefings Folder

→ Join by Phone

## Conference Line/Code / Ex. 6

→ Join Skype Meeting

Trouble Joining? [Try Skype Web App](#)

→ Meeting Organizer

Erik Peterson, USEPA (206) 553-6382 office

## Appointment

---

**From:** Hladick, Christopher [hladick.christopher@epa.gov]  
**Sent:** 11/5/2018 5:29:46 PM  
**To:** Hladick, Christopher [hladick.christopher@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]  
**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]

**Subject:** Discussion USACE MOU / Pebble  
**Location:** Chris' Office

**Start:** 11/9/2018 9:00:00 PM  
**End:** 11/9/2018 9:45:00 PM  
**Show Time As:** Busy

## Appointment

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**From:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Sent:** 6/12/2018 11:14:40 PM  
**To:** Peterson, Erik [Peterson.Erik@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]  
**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]; Thiesing, Mary [Thiesing.Mary@epa.gov]  
**Subject:** Bristol Bay Check-in  
**Attachments:** Untitled Attachment; Canceled: Bristol Bay Check-in; Untitled Attachment; Bristol Bay Check-in; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment  
**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center  
**Start:** 7/31/2018 4:00:00 PM  
**End:** 7/31/2018 5:00:00 PM  
**Show Time As:** Busy

**Recurrence:** Weekly  
every 2 week(s) on Tuesday from 9:00 AM to 10:00 AM

Erik Peterson will email the agenda prior to the meeting.

### → Join by Phone

**Conference Line/Code / Ex. 6**

### → Meeting Organizer

Erik Peterson, USEPA (206) 553-6382 office

## Appointment

---

**To:** Peterson, Erik [Peterson.Erik@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]

**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]

**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Start:** 8/1/2018 5:00:00 PM

**End:** 8/1/2018 5:30:00 PM

**Show Time As:** Tentative

**Recurrence:** (none)

Suggesting change to this meeting given scheduling constraints.

Erik Peterson will email the agenda prior to the meeting.

### → Join by Phone

**Conference Line/Code / Ex. 6**

### → Meeting Organizer

Erik Peterson, USEPA (206) 553-6382 office



## Appointment

---

**To:** Stern, Allyn [Stern.Allyn@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]

**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]

**Location:** R10Sea-Room-14WallaWalla/R10-Rooms-Service-Center

**Start:** 12/4/2018 5:00:00 PM

**End:** 12/4/2018 6:00:00 PM

**Recurrence:** (none)

### Agenda

NEPA preliminary EIS comments

Briefing

FOIA

Information Quality Act Request for Correction or Withdrawal

404c rulemaking

→ Join by Phone

**Conference Line/Code / Ex. 6**

→ Meeting Organizer

Erik Peterson, USEPA (206) 553-6382 office

## Appointment

---

**From:** Peterson, Erik [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=0ecba75a9f9448d3980a693951129e64-Peterson, Erik]  
**Sent:** 9/18/2018 11:09:44 PM  
**To:** Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]  
**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]; Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]  
**Subject:** Bristol Bay Check-in  
**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center  
**Start:** 9/25/2018 4:00:00 PM  
**End:** 9/25/2018 5:00:00 PM  
**Show Time As:** Free  
**Recurrence:** Weekly  
every 2 week(s) on Tuesday from 9:00 AM to 10:00 AM

### → Join by Phone

**Conference Line/Code / Ex. 6**

### → Meeting Organizer

Erik Peterson, USEPA (206) 553-6382 office

## Appointment

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**To:** Fordham, Tami [Fordham.Tami@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]  
**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]; Walker, Denise [Walker.Denise@epa.gov]

**Location:** R10Sea-Room-14WallaWalla/R10-Rooms-Service-Center

**Start:** 10/23/2018 4:00:00 PM

**End:** 10/23/2018 5:00:00 PM

**Recurrence:** (none)

### Agenda

NEPA Review

FOIA – E&E News

### → Join by Phone

**Conference Line/Code / Ex. 6**

### → Meeting Organizer

Erik Peterson, USEPA (206) 553-6382 office

## Appointment

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**To:** Peterson, Erik [Peterson.Erik@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]

**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]

**Location:** R10Sea-Room-14WallaWalla/R10-Rooms-Service-Center

**Start:** 10/9/2018 4:00:00 PM

**End:** 10/9/2018 5:00:00 PM

**Recurrence:** (none)

## Agenda

### 404(c) Team

#### Congressional responses (Palmer)

- Western Caucus (Gosar et al) – newly OW-approved, not issued
- DeFazio and Carper – just revised, based on newly OW-approved, not issued Western Caucus response
- Lamar Smith – just drafted, based on newly OW-approved, not issued Western Caucus response

#### FOIA (Ashley)

- E&E News – new request for unredacted copies
- McKeever FOIA Lawsuit – next steps
- NRDC and CNN – working with the AOs office
- Trustees for Alaska – options for Justin Schwab review
- Trustees for Alaska 2 – new FOIA
- Back-up (Erik)

#### External Correspondence (Erik)

- Recent activity and approach

### Permit Oversight/ NEPA Review Team

#### Timing a Brittany Bolen briefing?

#### Site Visits

- July 9 – 11: CWA 404 field verification was completed by Mark Douglas
- July 31: Site visit with some of our NEPA team (Patty, Molly, Tim, Chris) to view the mine site, proposed Lake Iliamna port sites, and portions of the proposed roads

#### NEPA/EIS document reviews - completed

- Scoping Document: In August we submitted comments on the draft scoping document that describes the significant issues raised in scoping. The final scoping document is available on the Corp's Pebble EIS website.
- Preliminary EIS Sections: In July and August, we reviewed and commented on specific portions of chapter 3 (affected environment) and chapter 4 (environmental consequences) that pertain to our areas of special

expertise as identified by the Corps which includes: aesthetics, surface water hydrology, groundwater hydrology, water and sediment quality, wetlands, vegetation)

- The documents have many placeholders since there have been changes to the proposed action, alternatives have yet to be finalized, and there are numerous substantial requests for additional information where the Corps is awaiting response from PLP.
- Alternatives: On October 3, we submitted comments on draft Appendix B (Alternatives Development Process). Previously we participated in a cooperating agency meeting and provided verbal input on the alternatives development process and some of the potential alternatives.

NEPA/EIS document reviews – upcoming

- The Corps has indicated that they will be sending us draft DEIS sections on 11/9 with comments due by 11/21. We have requested more time for review (30 days review period).

Schedule

- The Corps Pebble EIS website identifies estimated dates for a draft EIS in January 2019 and a final EIS in late 2019.

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**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]

**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Start:** 11/6/2018 5:00:00 PM

**End:** 11/6/2018 6:00:00 PM

**Recurrence:** (none)

Erik and Patty will be calling in to this meeting.

### Agenda

**Permit Oversight/ NEPA Review Team**

NEPA Review

**404(c)**

FOIA – HQ role in FOIA responsibilities

**→ Join by Phone**

**Conference Line/Code / Ex. 6**

**→ Meeting Organizer**

Erik Peterson, USEPA (206) 553-6382 office

## Appointment

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**To:** Fordham, Tami [Fordham.Tami@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Stern, Allyn [Stern.Alyn@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]  
**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]

**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Start:** 11/20/2018 5:00:00 PM

**End:** 11/20/2018 6:00:00 PM

**Recurrence:** (none)

### Agenda

#### **Permit Oversight/ NEPA Review Team**

Preliminary EIS review

#### **404(c) Team**

NEPA/404c coordination

Competitive Enterprise Institute Information Quality Act Request for Correction or Withdrawal Regarding Bristol Bay Watershed Assessment

#### FOIA

- E&E News (011614)
- McKeever FOIA Lawsuit
- Trustees for Alaska 2 (0135)
- HQ FOIA Role

#### Congressional correspondence

- Western Caucus (Gosar et al) – Forsgren signed final sent 9/16/18
- Lamar Smith – nearly identical Forsgren signed final sent 10/18/18
- DeFazio and Carper – in process

June 2018 memo on 404c regulation revisions

#### External meeting

- 11/14/18 Forsgren, PLP and other BB stakeholders

### **→ Join by Phone**

**Conference Line/Code / Ex. 6**

## → Meeting Organizer

Erik Peterson, USEPA (206) 553-6382 office



## Appointment

---

**To:** Peterson, Erik [Peterson.Erik@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]

**CC:** Chu, Rebecca [Chu.Rebecca@epa.gov]; Thiesing, Mary [Thiesing.Mary@epa.gov]; Detwiler, Susan K. [detwiler.susan@epa.gov]; Thiesing, Mary [Thiesing.Mary@epa.gov]

**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Start:** 12/18/2018 5:00:00 PM

**End:** 12/18/2018 6:00:00 PM

**Recurrence:** (none)

Proposed Agenda – let Erik know if you have suggestions

### **Permit Oversight/ NEPA Review Team**

NEPA Preliminary EIS Comments

Public Notice

PLP's draft Compensatory Mitigation Plan

### **404(c) Team**

Hladick and Forsgren 12/12 Briefing

Bristol Bay NEPA and 404 Leadership Update for January 2019

CMS Pebble Limited Partnership

FOIA

Request for Correction or Withdrawal

### **→ Join by Phone**

**Conference Line/Code / Ex. 6**

### **→ Meeting Organizer**

Erik Peterson, USEPA (206) 553-6382 office

**Conference Line/Code / Ex. 6**

**Organizer:** R10-OERA Calendar[R10-OERA\_Calendar@epa.gov]

**From:** Kelly, Christine M

**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center; Conference Line: **Personal Matters / Ex. 6**

**Importance:** Normal

**Subject:** Bristol Bay Check-in

**Start Time:** Tue 7/3/2018 4:00:00 PM

**End Time:** Tue 7/3/2018 5:00:00 PM

**Required Attendees:** Hough, Palmer; Peterson, Erik; Nalven, Heidi; Fordham, Tami; Marcia Combes (Combes.Marcia@epa.gov); Mendelman, Krista; Stern, Allyn; Stern, Allyn; Nalven, Heidi; Peterson, Erik; Hough, Palmer; Vaughan, Molly; LaCroix, Matthew; Nogi, Jill; Skadowski, Suzanne; Lindsay, Andrea; Steiner-Riley, Cara; Szerlog, Michael; Palomaki, Ashley; McGrath, Patricia; Anderson-Carnahan, Linda; Mendelman, Krista; Fordham, TamiAllnutt, David; Anderson-Carnahan, Linda; McGrath, Patricia; Palomaki, Ashley; Szerlog, Michael; Steiner-Riley, Cara; Lindsay, Andrea; Skadowski, Suzanne; Nogi, Jill; LaCroix, Matthew; Vaughan, Molly; Hough, Palmer; Peterson, Erik; Nalven, Heidi; Combes, Marcia; Stern, AllynFordham, Tami; Mendelman, Krista

**Optional Attendees:** Detwiler, Susan K.; Douglas, Mark

## Appointment

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**To:** Stern, Allyn [Stern.Allyn@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; LaCroix, Matthew [LaCroix.Matthew@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Szerlog, Michael [Szerlog.Michael@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; R10-OERA Calendar [R10-OERA\_Calendar@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Szerlog, Michael [Szerlog.Michael@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; LaCroix, Matthew [LaCroix.Matthew@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Combes, Marcia [Combes.Marcia@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]

**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center; Conference Line: **Conference Line/Code / Ex. 6**

**Start:** 7/3/2018 4:00:00 PM

**End:** 7/3/2018 5:00:00 PM

**Show Time As:** Tentative

**Recurrence:** (none)

Message

---

**From:** Anderson-Carnahan, Linda [anderson-carnahan.linda@epa.gov]  
**Sent:** 4/16/2018 10:48:44 PM  
**To:** Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; Holsman, Marianne [Holsman.Marianne@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]  
**Subject:** Conversation with Anderson-Carnahan, Linda, holsman.marianne@epa.gov

Anderson-Carnahan, Linda 2:42 PM:

Heather Dean is sending an E&E reporter request on Pebble on compensatory mitigation for wetlands your way Marianne.

Holsman, Marianne 2:57 PM:

Good. Thanks!

## Appointment

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**From:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Sent:** 11/5/2018 8:45:50 PM  
**To:** Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]  
**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]

**Subject:** Bristol Bay Check-in  
**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Start:** 11/6/2018 5:00:00 PM  
**End:** 11/6/2018 6:00:00 PM  
**Show Time As:** Tentative

**Recurrence:** Weekly  
every 2 week(s) on Tuesday from 9:00 AM to 10:00 AM

Erik and Patty will be calling in to this meeting.

### Agenda

#### Permit Oversight/ NEPA Review Team

NEPA Review

#### 404(c)

FOIA – HQ role in FOIA responsibilities

### → Join by Phone

**Conference Line/Code / Ex. 6**

### → Meeting Organizer

Erik Peterson, USEPA (206) 553-6382 office

## Appointment

---

**From:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Sent:** 10/9/2018 3:48:24 PM  
**To:** Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]  
**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]

**Subject:** Bristol Bay Check-in  
**Location:** R10Sea-Room-14WallaWalla/R10-Rooms-Service-Center

**Start:** 10/9/2018 4:00:00 PM  
**End:** 10/9/2018 5:00:00 PM  
**Show Time As:** Tentative

**Recurrence:** Weekly  
every 2 week(s) on Tuesday from 9:00 AM to 10:00 AM

## Agenda

### 404(c) Team

#### Congressional responses (Palmer)

- Western Caucus (Gosar et al) – newly OW-approved, not issued
- DeFazio and Carper – just revised, based on newly OW-approved, not issued Western Caucus response
- Lamar Smith – just drafted, based on newly OW-approved, not issued Western Caucus response

#### FOIA (Ashley)

- E&E News – new request for unredacted copies
- McKeever FOIA Lawsuit – next steps
- NRDC and CNN – working with the AOs office
- Trustees for Alaska – options for Justin Schwab review
- Trustees for Alaska 2 – new FOIA
- Back-up (Erik)

#### External Correspondence (Erik)

- Recent activity and approach

### Permit Oversight/ NEPA Review Team

#### Timing a Brittany Bolen briefing?

#### Site Visits

- July 9 – 11: CWA 404 field verification was completed by Mark Douglas
- July 31: Site visit with some of our NEPA team (Patty, Molly, Tim, Chris) to view the mine site, proposed Lake Iliamna port sites, and portions of the proposed roads

#### NEPA/EIS document reviews - completed

- Scoping Document: In August we submitted comments on the draft scoping document that describes the significant issues raised in scoping. The final scoping document is available on the Corp's Pebble EIS website.
- Preliminary EIS Sections: In July and August, we reviewed and commented on specific portions of chapter 3 (affected environment) and chapter 4 (environmental consequences) that pertain to our areas of special expertise as identified by the Corps which includes: aesthetics, surface water hydrology, groundwater hydrology, water and sediment quality, wetlands, vegetation)
  - The documents have many placeholders since there have been changes to the proposed action, alternatives have yet to be finalized, and there are numerous substantial requests for additional information where the Corps is awaiting response from PLP.
- Alternatives: On October 3, we submitted comments on draft Appendix B (Alternatives Development Process). Previously we participated in a cooperating agency meeting and provided verbal input on the alternatives development process and some of the potential alternatives.

#### NEPA/EIS document reviews – upcoming

- The Corps has indicated that they will be sending us draft DEIS sections on 11/9 with comments due by 11/21. We have requested more time for review (30 days review period).

#### Schedule

- The Corps Pebble EIS website identifies estimated dates for a draft EIS in January 2019 and a final EIS in late 2019.

### → Join by Phone

**Conference Line/Code / Ex. 6**

### → Meeting Organizer

Erik Peterson, USEPA (206) 553-6382 office



## Appointment

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**From:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Sent:** 10/9/2018 2:47:57 PM  
**To:** Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]  
**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]

**Subject:** Bristol Bay Check-in  
**Location:** R10Sea-Room-14WallaWalla/R10-Rooms-Service-Center

**Start:** 10/9/2018 4:00:00 PM  
**End:** 10/9/2018 5:00:00 PM  
**Show Time As:** Tentative

**Recurrence:** Weekly  
every 2 week(s) on Tuesday from 9:00 AM to 10:00 AM

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## 404(c) Team

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- Trustees for Alaska 2 – new FOIA
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- Lamar Smith – just drafted, based on newly OW-approved, not issued Western Caucus response

### External Correspondence

- Recent activity and approach

## → Join by Phone

**Conference Line/Code / Ex. 6**

## → Meeting Organizer

Erik Peterson, USEPA (206) 553-6382 office

Message

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**From:** McGrath, Patricia [mcgrath.patricia@epa.gov]  
**Sent:** 11/27/2018 4:59:13 PM  
**To:** Hladick, Christopher [hladick.christopher@epa.gov]; Detwiler, Susan K. [detwiler.susan@epa.gov]; Pirzadeh, Michelle [Pirzadeh.Michelle@epa.gov]; Holsman, Marianne [Holsman.Marianne@epa.gov]; Hamlin, Tim [Hamlin.Tim@epa.gov]; Kowalski, Edward [Kowalski.Edward@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Opalski, Dan [Opalski.Dan@epa.gov]; Bilbrey, Sheryl [Bilbrey.Sheryl@epa.gov]  
**Subject:** RE: Dunleavy selects Jason Brune for DEC Commissioner

Jason worked for Anglo American as its Government and Public Affairs manager when Anglo was a partner on the Pebble project. I have worked with him during that time and on other issues over the years (e.g., Donlin).

---

**From:** Hladick, Christopher  
**Sent:** Tuesday, November 27, 2018 8:51 AM  
**To:** Detwiler, Susan K. <detwiler.susan@epa.gov>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Hamlin, Tim <Hamlin.Tim@epa.gov>; Kowalski, Edward <Kowalski.Edward@epa.gov>; Allnutt, David <Allnutt.David@epa.gov>; Opalski, Dan <Opalski.Dan@epa.gov>; Bilbrey, Sheryl <bilbrey.sheryl@epa.gov>; R10-AOO Mail Group <R10AOO\_Mail\_Group@epa.gov>; McGrath, Patricia <mcgrath.patricia@epa.gov>  
**Subject:** RE: Dunleavy selects Jason Brune for DEC Commissioner

Yup I know Jason from RDC. His affiliation with Pebble is something I was not aware.

Chris Hladick  
Regional Administrator  
U.S. Environmental Protection Agency, Region 10  
Office: (206) 553-1234  
Cell: (206) 247-2946  
Fax: (206) 553-1809

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**From:** Detwiler, Susan K.  
**Sent:** Tuesday, November 27, 2018 8:47 AM  
**To:** Hladick, Christopher <hladick.christopher@epa.gov>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov>; Holsman, Marianne <Holsman.Marianne@epa.gov>; Hamlin, Tim <Hamlin.Tim@epa.gov>; Kowalski, Edward <Kowalski.Edward@epa.gov>; Allnutt, David <Allnutt.David@epa.gov>; Opalski, Dan <Opalski.Dan@epa.gov>; Bilbrey, Sheryl <bilbrey.sheryl@epa.gov>; R10-AOO Mail Group <R10AOO\_Mail\_Group@epa.gov>; McGrath, Patricia <mcgrath.patricia@epa.gov>  
**Subject:** Dunleavy selects Jason Brune for DEC Commissioner

See Juneau Empire article below. Also see KTVA <https://www.ktva.com/story/39540909/dunleavy-announces-environmental-health-commissioners>

<https://www.juneauempire.com/news/dunleavy-announces-environmental-health-commissioners/>

## Dunleavy announces environmental, health commissioners

- Monday, November 26, 2018 6:20pm

Alaska Gov.-elect Mike Dunleavy's pick to lead the Department of Environmental Conservation has a resource development background. His pick for health commissioner is a workforce development company executive.

Dunleavy, a Republican former state senator, in a statement said the status quo "came to a screeching halt" with his election. He said his appointees will help deliver state services in "innovative ways."

Dunleavy takes office Dec. 3. Among the appointments he announced Monday were Jason Brune as Environmental Conservation commissioner and Adam Crum as health commissioner.

Brune is a former executive director of the Resource Development Council who worked in public affairs for a former partner in the Pebble Mine project. He most recently has worked for the Alaska Native corporation Cook Inlet Region, Inc., as senior director of land and resources.

Crum's bio, released by Dunleavy's transition, says he has degrees in psychology and public health. Crum told The Associated Press he is not a "health care policy guy" but is experienced in putting together and leading teams and working on projects.

He said there are talented people working in the state Department of Health and Social Services.

Crum, who said he applied for the job, is executive vice president with Northern Industrial Training LLC.

In his new role, he said a focus will be on "people, not programs," to make sure services are provided to those who need them most. Dunleavy has said he wants to review the state's Medicaid program to see if it's sustainable.

Becky Hultberg, president and CEO of the Alaska State Hospital and Nursing Home Association, said it's a bit unusual to hire someone who hasn't worked directly in the industry. But she said the department is big and complex and requires a leader with strong management skills. If Crum has those skills and surrounds himself with people who understand the complexities of health care, she said he could be a strong leader.

"I think we need to give him the benefit of the doubt," said Hultberg, a former state commissioner of Administration who remembers being called inexperienced. She said her agency got things done because of the talent on her team.

Dunleavy named Jonathan Quick his pick for commissioner of the Department of Administration and Donna Arduin as his budget director.

Arduin has worked with other Republican governors across the country, including as budget director for former Florida Gov. Jeb Bush.

The three commissioner picks are subject to legislative confirmation.

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**This is an Associated Press article by Becky Bohrer.**

## Appointment

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**From:** Gahner, Pamela [gahner.pamela@epa.gov]  
**Sent:** 11/14/2018 12:30:43 AM  
**To:** Allnutt, David [Allnutt.David@epa.gov]

**Subject:** Pebble Options  
**Location:** Chris' Office

**Start:** 12/7/2018 9:30:00 PM  
**End:** 12/7/2018 10:30:00 PM  
**Show Time As:** Tentative

## Appointment

---

**From:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Sent:** 10/22/2018 10:37:38 PM  
**To:** Fordham, Tami [Fordham.Tami@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]  
**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]

**Subject:** Bristol Bay Check-in  
**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Start:** 10/23/2018 4:00:00 PM  
**End:** 10/23/2018 5:00:00 PM  
**Show Time As:** Tentative

**Recurrence:** Weekly  
every 2 week(s) on Tuesday from 9:00 AM to 10:00 AM

### Agenda

NEPA Review

FOIA – E&E News

### → Join by Phone

**Conference Line/Code / Ex. 6**

### → Meeting Organizer

Erik Peterson, USEPA (206) 553-6382 office

## Appointment

---

**From:** R10-ORA [R10-ORA@epa.gov]  
**Sent:** 11/23/2018 5:19:29 PM  
**To:** **Conference Line/Code / Ex. 6** R10-RAs-Ste-Eqpt [R10SeaRA-CfLn **Conference Line/Code / Ex. 6** @epa.gov]; R10-ET Mail Group [R10ET\_Mail\_Group@epa.gov]  
**Subject:** Region 10 Executive Team Meeting  
**Attachments:** 11262015 ET Agenda.pdf  
**Location:** Room Change - 21 Shoshone / VTC w/Ops Offices  
**Start:** 11/26/2018 9:00:00 PM  
**End:** 11/26/2018 10:00:00 PM  
**Show Time As:** Tentative

Conference Line **Conference Line/Code / Ex. 6**

## R10 Executive Team Meeting Agenda

Monday, November 26, 2018 1:00pm – 2:00pm

ET Conference Room (21 Tahoma)

Chair: Chris Hladick/Michelle Pirzadeh

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**Time:** 1:00 PM to 1:15 PM  
**Topic:** RA/DRA Download  
**Presenter:** Chris Hladick/Michelle Pirzadeh

**Time:** 1:15 PM to 2:00 PM  
**Topic:** ET Roundtable Discussion  
**Presenters:** All ET Members

### RA/DRA Whereabouts & Meetings with External Partners for the week of Nov 26, 2018

|                  |   |  |
|------------------|---|--|
| <b>Monday</b>    | <i>Chris</i><br><i>Michelle</i>                     | <b>Non-Responsive - Unrelated to Bristol Bay/Pebble Mine</b> |
| <b>Tuesday</b>   | <i>Chris</i><br><i>Michelle</i>                     |  |
| <b>Wednesday</b> | <i>Chris</i>  |  |
| <b>Thursday</b>  | <i>Michelle</i><br><i>Chris</i><br><i>Michelle</i>  |  |
| <b>Friday</b>    | <i>Chris</i><br><i>Michelle</i><br><i>Acting RA</i> |  |

### RA/DRA Whereabouts & Meetings with External Partners for the week of Dec 3, 2018

|                  |   |   |
|------------------|---|---|
| <b>Monday</b>    | <i>Chris</i><br><i>Michelle</i><br><i>Acting RA</i> | <b>Non-Responsive - Unrelated to Bristol Bay/Pebble Mine</b>  |
| <b>Tuesday</b>   | <i>Chris</i><br><i>Michelle</i><br><i>Acting RA</i> |   |
| <b>Wednesday</b> | <i>Chris</i><br><i>Michelle</i><br><i>Acting RA</i> |   |
| <b>Thursday</b>  | <i>Chris</i><br><i>Michelle</i><br><i>Acting RA</i> |   |
| <b>Friday</b>    | <i>Chris</i><br><i>Michelle</i>                     | <b>In all day: Pebble Options Meeting</b><br><b>Non-Responsive - Unrelated to Bristol Bay/Pebble Mine</b> |

### Upcoming Events:

Dec 10:  
Dec 11:  
Dec 11-13:

**Non-Responsive - Unrelated to Bristol Bay/Pebble Mine**



## Appointment

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**From:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Sent:** 11/21/2018 11:31:35 PM  
**To:** Allnutt, David [Allnutt.David@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]  
**Subject:** Bristol Bay - High Level Briefing Preparation #2  
**Location:** R10Sea-Room-14WallaWalla/R10-Rooms-Service-Center  
**Start:** 12/12/2018 9:00:00 PM  
**End:** 12/12/2018 10:00:00 PM  
**Show Time As:** Tentative

Not sure if David will want/need to participate in this 2<sup>nd</sup> briefing preparation meeting. Just getting it on our calendars for now. Agenda TBD based on 1<sup>st</sup> meeting.

My suggestion is that we use the following briefings folder to collaborate.

[Bristol Bay - Briefings Folder](#)

## Appointment

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**From:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Sent:** 11/21/2018 11:27:27 PM  
**To:** Allnutt, David [Allnutt.David@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]  
**Subject:** Bristol Bay - High Level Briefing Preparation  
**Location:** David's Office and on the phone  
  
**Start:** 11/28/2018 7:15:00 PM  
**End:** 11/28/2018 8:00:00 PM  
**Show Time As:** Tentative

## Agenda

- Reason for briefing
- For whom
- Main topics
- Timing
- Next steps

I've created a folder to compile relevant information. If you have useful documents (like briefing papers), scripts or previous presentations etc., then I suggest adding them to the briefings folder at the link below. Ok for it to be too many or imperfect for now, goal is to get relevant source material in one place. We'll organize it better as we go along.

[Bristol Bay - Briefings Folder](#)

→ [Join by Phone](#)

**Conference Line/Code / Ex. 6**

→ [Join Skype Meeting](#)

Trouble Joining? [Try Skype Web App](#)

→ [Meeting Organizer](#)

Erik Peterson, USEPA (206) 553-6382 office

## Appointment

---

**From:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Sent:** 10/1/2018 8:15:10 PM  
**To:** Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]  
**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]

**Subject:** Bristol Bay Check-in  
**Location:** R10Sea-Room-14WallaWalla/R10-Rooms-Service-Center

**Start:** 12/4/2018 5:00:00 PM  
**End:** 12/4/2018 6:00:00 PM  
**Show Time As:** Tentative

**Recurrence:** Weekly  
every 2 week(s) on Tuesday from 9:00 AM to 10:00 AM

Erik Peterson will email the agenda prior to the meeting.

### → Join by Phone

**Conference Line/Code / Ex. 6**

### → Meeting Organizer

Erik Peterson, USEPA (206) 553-6382 office

## Appointment

---

**From:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Sent:** 10/1/2018 8:14:12 PM  
**To:** Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]; Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]

**Subject:** Canceled: Bristol Bay Check-in  
**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Start:** 11/7/2018 5:00:00 PM  
**End:** 11/7/2018 6:00:00 PM  
**Show Time As:** Free

**Importance:** High

**Recurrence:** Weekly  
every 2 week(s) on Wednesday from 9:00 AM to 10:00 AM

Erik Peterson will email the agenda prior to the meeting.

### → Join by Phone

**Conference Line/Code / Ex. 6**

### → Meeting Organizer

Erik Peterson, USEPA (206) 553-6382 office

## Appointment

---

**From:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Sent:** 10/1/2018 8:13:08 PM  
**To:** Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]  
**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]  
**Subject:** Bristol Bay Check-in  
**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center  
**Start:** 7/31/2018 4:00:00 PM  
**End:** 7/31/2018 5:00:00 PM  
**Show Time As:** Tentative

**Recurrence:** Weekly  
every 2 week(s) on Tuesday from 9:00 AM to 10:00 AM

Erik Peterson will email the agenda prior to the meeting.

### → Join by Phone

**Conference Line/Code / Ex. 6**

### → Meeting Organizer

Erik Peterson, USEPA (206) 553-6382 office

## Appointment

---

**From:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Sent:** 10/1/2018 7:58:03 PM  
**To:** Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]; Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]

**Subject:** Bristol Bay Check-in  
**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Start:** 11/7/2018 5:00:00 PM  
**End:** 11/7/2018 6:00:00 PM  
**Show Time As:** Tentative

**Recurrence:** Weekly  
every 2 week(s) on Wednesday from 9:00 AM to 10:00 AM

Erik Peterson will email the agenda prior to the meeting.

### → Join by Phone

**Conference Line/Code / Ex. 6**

### → Meeting Organizer

Erik Peterson, USEPA (206) 553-6382 office

Message

---

**From:** Maley, Timothy [maley.timothy@epa.gov]  
**Sent:** 10/26/2018 8:24:17 PM  
**To:** Allnutt, David [Allnutt.David@epa.gov]  
**Subject:** RE: OERA shout out

Thanks for the recognition.

- Tim

*Tim Maley, PG*  
EPA-R10/OERA  
O: 206-553-1210

---

**From:** Allnutt, David  
**Sent:** Thursday, October 25, 2018 5:29 PM  
**Cc:** Vaughan, Molly <Vaughan.Molly@epa.gov>; McGrath, Patricia <mcgrath.patricia@epa.gov>; Maley, Timothy <maley.timothy@epa.gov>; Eckley, Chris <Eckley.Chris@epa.gov>; Douglas, Mark <douglas.mark@epa.gov>; Thiesing, Mary <Thiesing.Mary@epa.gov>; Barton, Justine <Barton.Justine@epa.gov>; Nogi, Jill <nogi.jill@epa.gov>; McGrath, Patricia <mcgrath.patricia@epa.gov>; Palomaki, Ashley <Palomaki.Ashley@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; Nalven, Heidi <Nalven.Heidi@epa.gov>; Hough, Palmer <Hough.Palmer@epa.gov>  
**Subject:** OERA shout out

**Sent bcc to**  
**all OERA staff**

OERA – After a strong start last spring, Linda and I have been delinquent recently in sharing individual and team shout outs with the office.

To help get us back on track, I wanted to share with the office my gratitude (previously expressed orally to the team) for the Bristol Bay NEPA team's efforts earlier this year. In particular, I wanted to call out the group of folks who worked together on the Pebble Mine NEPA scoping letter that EPA submitted this past summer to the Corps of Engineers.

In May and June, the team worked tirelessly to develop the Region's recommendations at this very early stage in the NEPA process on a range of technical- and policy-related topics including water quality, air quality, aquatic resource protections, traditional ecological knowledge, tribal consultation, climate adaptation, financial assurance, mining geochemistry, seismic stability, dredged material management, and much more. This was a high-profile letter, and the team did a great job pulling together, refining, and defending two dozen pages of technically sound comments for this very complex project. Kudos to OERA's own Molly Vaughan, Tim Maley, Chris Eckley, Mark Douglas, Mary Anne Thiesing, Chris Meade, Justine Barton, and Jill Nogi. Others on the team whose technical, policy, legal, and communications expertise helped shape the letter include colleagues outside of OERA: Patty McGrath, Jay McAlpine, Ashley Palomaki, Suzanne Skadowski, Heidi Nalven (OGC), and Palmer Hough (OW). Thanks to all of you for helping to ensure that the environmental review for this project will be robust and based on sound science!

Now that I'm back on track, be on the lookout for additional shout outs in the coming weeks and months.

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Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581



Message

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**From:** Fiedorczyk, Bryan [Fiedorczyk.Bryan@epa.gov]  
**Sent:** 10/26/2018 4:59:03 PM  
**To:** Allnutt, David [Allnutt.David@epa.gov]  
**Subject:** RE: OERA shout out  
**Attachments:** ATT22343

Thanks for sending this out, David – and including “shout out” in the title and bccing the Internal Comms team!

Cheers!  
Bryan

---

**Bryan Fiedorczyk | Program Analyst | Regional Administrator's Division | U.S. EPA Region 10**  
1200 Sixth Avenue, Suite 155 ;Mail Stop RAD-121-1 | Seattle, WA 98101  
206.553.0506 | [fiedorczyk.bryan@epa.gov](mailto:fiedorczyk.bryan@epa.gov)

October is

## Children's Health Month

*Prime time for Children's Environmental Health Training!*



**How?** Go to InfoPage, click **eLearning**, click the eLearning icon, enter regular login info, search **Children's Environmental Health Training**, then **Launch**.

**Treat?** Send your completion certificate to me by email or by mail to RAD-121-1 to get a tasty treat.

---

**From:** Allnutt, David

**Sent:** Thursday, October 25, 2018 5:29 PM

**Cc:** Vaughan, Molly <Vaughan.Molly@epa.gov>; McGrath, Patricia <mcgrath.patricia@epa.gov>; Maley, Timothy <maley.timothy@epa.gov>; Eckley, Chris <Eckley.Chris@epa.gov>; Douglas, Mark <douglas.mark@epa.gov>; Thiesing, Mary <Thiesing.Mary@epa.gov>; Barton, Justine <Barton.Justine@epa.gov>; Nogi, Jill <nogi.jill@epa.gov>; McGrath, Patricia <mcgrath.patricia@epa.gov>; Palomaki, Ashley <Palomaki.Ashley@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; Nalven, Heidi <Nalven.Heidi@epa.gov>; Hough, Palmer <Hough.Palmer@epa.gov>

**Subject:** OERA shout out

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all OERA staff

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geochemistry, seismic stability, dredged material management, and much more. This was a high-profile letter, and the team did a great job pulling together, refining, and defending two dozen pages of technically sound comments for this very complex project. Kudos to OERA's own Molly Vaughan, Tim Maley, Chris Eckley, Mark Douglas, Mary Anne Thiesing, Chris Meade, Justine Barton, and Jill Nogi. Others on the team whose technical, policy, legal, and communications expertise helped shape the letter include colleagues outside of OERA: Patty McGrath, Jay McAlpine, Ashley Palomaki, Suzanne Skadowski, Heidi Nalven (OGC), and Palmer Hough (OW). Thanks to all of you for helping to ensure that the environmental review for this project will be robust and based on sound science!

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Independent Bitmap) >> <<

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Independent Bitmap) >>

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**R. David Allnutt**, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581

**From:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Sent:** 11/16/2018 8:06:38 PM  
**To:** Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]  
**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]

**Subject:** Bristol Bay Check-in  
**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Start:** 11/20/2018 5:00:00 PM  
**End:** 11/20/2018 6:00:00 PM  
**Show Time As:** Tentative

**Recurrence:** Weekly  
every 2 week(s) on Tuesday from 9:00 AM to 10:00 AM

### Agenda

#### **Permit Oversight/ NEPA Review Team**

Preliminary EIS review

#### **404(c) Team**

NEPA/404c coordination

Competitive Enterprise Institute Information Quality Act Request for Correction or Withdrawal Regarding Bristol Bay Watershed Assessment

#### **FOIA**

- E&E News (011614)
- McKeever FOIA Lawsuit
- Trustees for Alaska 2 (0135)
- HQ FOIA Role

#### **Congressional correspondence**

- Western Caucus (Gosar et al) – Forsgren signed final sent 9/16/18
- Lamar Smith – nearly identical Forsgren signed final sent 10/18/18
- DeFazio and Carper – in process

June 2018 memo on 404c regulation revisions

#### **External meeting**

- 11/14/18 Forsgren, PLP and other BB stakeholders

### **→ Join by Phone**

Conference Line/Code / Ex. 6

## Conference Line/Code / Ex. 6

### → Meeting Organizer

Erik Peterson, USEPA (206) 553-6382 office

## Appointment

---

**From:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Sent:** 11/16/2018 8:03:49 PM  
**To:** Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]  
**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]

**Subject:** Bristol Bay Check-in  
**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

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- HQ FOIA Role

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- DeFazio and Carper – in process

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### **→ Join by Phone**

Conference Line/Code / Ex. 6

## Conference Line/Code / Ex. 6

### → Meeting Organizer

Erik Peterson, USEPA (206) 553-6382 office

Message

---

**From:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Sent:** 7/31/2018 8:55:17 PM  
**To:** Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]; Detwiler, Susan K. [detwiler.susan@epa.gov]  
**Subject:** Bristol Bay Check-in Agenda - 8/1/18

Hello,

Tomorrow at 10 am PST, 8/1/18, we will have a Bristol Bay check-in with Linda Anderson-Carnahan. Linda is acting for David Allnutt while he is out.

The purpose of these bi-weekly meetings is for the two Bristol Bay Teams - the Permit Oversight/NEPA Review Team and the 404(c) Team – to check-in with each other and with regional management. Agenda items are listed below.

Agenda

Site visit

Review of preliminary EIS deliverables

Congressman De fazio and Senator Carter CMS

AOO Director Briefing

Henry Darwin Briefing

Gosar et al./Western Caucus Response

PLP legal memo OGC project



**Erik Peterson**, NEPA Reviewer  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-6382

---

-----Original Appointment-----

**From:** Peterson, Erik  
**Sent:** Tuesday, June 12, 2018 4:15 PM  
**To:** Anderson-Carnahan, Linda; Peterson, Erik; Allnutt, David; McGrath, Patricia; Palomaki, Ashley; Steiner-Riley, Cara; Lindsay, Andrea; Skadowski, Suzanne; Nogi, Jill; Douglas, Mark; Vaughan, Molly; Hough, Palmer; Nalven, Heidi; Fordham, Tami; Mendelman, Krista; Stern, Allyn; Anderson-Carnahan, Linda  
**Cc:** Detwiler, Susan K.  
**Subject:** Bristol Bay Check-in

**When:** Wednesday, August 01, 2018 10:00 AM-10:30 AM (UTC-08:00) Pacific Time (US & Canada).

**Where:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

Suggesting change to this meeting given scheduling constraints.

Erik Peterson will email the agenda prior to the meeting.

→ **Join by Phone**

**Conference Line/Code / Ex. 6**


→ **Meeting Organizer**

Erik Peterson, USEPA (206) 553-6382 office



Message

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**From:** LaCroix, Matthew [LaCroix.Matthew@epa.gov]  
**Sent:** 4/11/2018 1:58:29 AM  
**To:** Allnutt, David [Allnutt.David@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]  
**Subject:** Lessons from the Donlin Review  
**Attachments:**  **Deliberative Process / Ex. 5**

David and Molly,

Good evening. I am planning to talk through the attached document during tomorrow's Bristol Bay check-in. David, I hope this is somewhat close to what you had in mind. This discussion can take five minutes or much longer, depending on how deep we want to get into the individual issues, and the time allocated. It should, at a minimum, be useful for stimulating follow-up discussions. I was hoping to share the document earlier today, but circumstances prevented me from finishing it until just now. Until tomorrow.

Thanks,

Matthew LaCroix, Biologist  
Aquatic Resources Unit  
Office of Environmental Review and Assessment  
Alaska Operations Office  
222 W. 7<sup>th</sup> Ave. #19  
Anchorage, AK 99513  
(907) 271-1480

Message

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**From:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Sent:** 9/21/2018 12:42:52 AM  
**To:** Allnutt, David [Allnutt.David@epa.gov]  
**Subject:** RE: Bristol Bay Check-in 9/25/18 - Cancel?

Ok, thank you. HQ decided not to respond to the Competitive Enterprise Institute and the Congressional letters are essentially all awaiting signature, no more staff or regional input.



**Erik Peterson**, NEPA Reviewer  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-6382

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**From:** Allnutt, David  
**Sent:** Thursday, September 20, 2018 5:41 PM  
**To:** Peterson, Erik <Peterson.Erik@epa.gov>  
**Subject:** RE: Bristol Bay Check-in 9/25/18 - Cancel?

Erik – fine with me to postpone. I think Molly is out that day as well. Is anyone looking for our input on the Congressional letters or the CMS from Competitive Enterprise Institute? Or maybe those are done?



**R. David Allnutt**, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581

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**From:** Peterson, Erik  
**Sent:** Thursday, September 20, 2018 4:35 PM  
**To:** Allnutt, David <Allnutt.David@epa.gov>  
**Subject:** Bristol Bay Check-in 9/25/18 - Cancel?

David,

I propose we cancel the check-in for 9/25 because there aren't pressing major updates for either team beyond what is in the 9/7 update I sent before (enclosed) and several key staff are out (myself and Palmer) tentative (Ashley), or just returning from leave (Patty). It seems like a more well attended check-in two weeks later could be more valuable.

What do you think? I'm working until about 6 pm and am currently thinking to cancel based on the reasons above before the end of the day. I'll wait until 5:30 before doing so in case you disagree and would like to have the check-in.



**Erik Peterson**, NEPA Reviewer  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-6382

**From:** Peterson, Erik

**Sent:** Friday, September 07, 2018 3:17 PM

**To:** Fordham, Tami <Fordham.Tami@epa.gov>; Allnutt, David <Allnutt.David@epa.gov>; Anderson-Carnahan, Linda <Anderson-Carnahan.Linda@epa.gov>; McGrath, Patricia <mcgrath.patricia@epa.gov>; Palomaki, Ashley <Palomaki.Ashley@epa.gov>; Steiner-Riley, Cara <Steiner-Riley.Cara@epa.gov>; Lindsay, Andrea <Lindsay.Andrea@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; Nogi, Jill <nogi.jill@epa.gov>; Douglas, Mark <douglas.mark@epa.gov>; Vaughan, Molly <Vaughan.Molly@epa.gov>; Hough, Palmer <Hough.Palmer@epa.gov>; Nalven, Heidi <Nalven.Heidi@epa.gov>; Mendelman, Krista <Mendelman.Krista@epa.gov>; Stern, Allyn <Stern.Allyn@epa.gov>

**Cc:** Detwiler, Susan K. <detwiler.susan@epa.gov>; Chu, Rebecca <Chu.Rebecca@epa.gov>

**Subject:** Bristol Bay Check-in 9/11/18 - Cancellation and Update

Hello,

Welcome back David! Given that you are out on September 11, we are canceling the check-in and the Bristol Bay Teams have the following update for you. We plan on having the Bristol Bay Check-in on September 25<sup>th</sup> at 9:00 am PST.

## Updates

### Permit Oversight/ NEPA Review Team

#### Scoping Document

- EPA reviewed and commented on the draft scoping document that describes the significant issues raised in scoping. The final scoping document is available on the Corp's Pebble EIS website.

#### Preliminary EIS review

- EPA reviewed and commented on specific portions of chapter 3 (affected environment) and chapter 4 (environmental consequences) that pertain to our areas of special expertise as identified by the Corps which includes: aesthetics, surface water hydrology, groundwater hydrology, water and sediment quality, wetlands, vegetation
- The documents have many placeholders since there have been changes to the proposed action, alternatives have yet to be developed, and there are numerous substantial requests for additional information where the Corps is awaiting response from PLP.

# Deliberative Process / Ex. 5

#### Alternatives

- The Corps is developing the range of alternatives to be analyzed in the EIS. We participated in a cooperating agency meeting and provided input. During the week of Sept 10, the Corps is to submit a detailed discussion of the alternatives selected for EIS review and rationale for those dismissed.

#### Site Visits

- July 9 – 11: CWA 404 field verification was completed by Mark Douglas

- July 31: Site visit with some of our NEPA team (Patty, Molly, Tim, Chris) to view the mine site, proposed Lake Iliamna port sites, and portions of the proposed roads.

#### Schedule

- The Corps Pebble EIS website identifies a draft EIS in January 2019 and a final EIS in late 2019.

#### 404(c) Team

#### FOIA

- NRDC and CNN FOIA: extended until end 9/28/18 as we work on ex-Administrator's office employee non-email electronic records. Making progress.
- Trustees for Alaska FOIA: interim release of Corps equities documents on 8/31 and deadline extended until 10/31/18 to facilitate coordination between R10 and HQ on the remaining documents.

#### Representative DeFazio and Senator Carper letter response

- This July 2018 letter asks for Wheeler to revoke the June 2018 memo issued by Pruitt, describe his view of proper use of 404(c) and the Mingo Logan case, and, describe current and planned EPA actions regarding Pebble.
- EPA's response was uploaded to CMS for Lee F's signature on 8/27

#### Interest group letter to EPA

- This 9/6/18 letter to EPA from 15 interest groups (including, for example, the Competitive Enterprise Institute) urges Wheeler to rescind the proposed determination and applauds the June 2018 memo issued by Pruitt.
- If this letter is controlled for a response, HQ will share a draft with R10.

#### External Meetings

- Henry Darwin met with Pebble representatives the week of 8/2/18. The 404(c) Team uploaded a note of this meeting to our external meetings folder on share point.
- We want to emphasize our interest for external meetings at all levels to be recorded with: topic, date, attendees, agenda and notes.

#### PLP letter, memo to file

- An OGC clerk has completed a summary of court decisions on challenges to agencies withdrawing proposals.



**Erik Peterson**, NEPA Reviewer  
 U.S. EPA, Region 10  
 1200 Sixth Avenue, Suite 155  
 Seattle, Washington 98101-3140  
 (206) 553-6382

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-----Original Appointment-----

**From:** Peterson, Erik

**Sent:** Tuesday, June 12, 2018 4:15 PM

**To:** Fordham, Tami; Peterson, Erik; Allnutt, David; Anderson-Carnahan, Linda; McGrath, Patricia; Palomaki, Ashley; Steiner-Riley, Cara; Lindsay, Andrea; Skadowski, Suzanne; Nogi, Jill; Douglas, Mark; Vaughan, Molly; Hough, Palmer; Nalven, Heidi; Mendelman, Krista; Stern, Allyn

**Cc:** Detwiler, Susan K.; Chu, Rebecca

**Subject:** Bristol Bay Check-in

**When:** Tuesday, September 11, 2018 9:00 AM-10:00 AM (UTC-08:00) Pacific Time (US & Canada).

**Where:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

Moving the bi-weekly Bristol Bay Check-in from Wednesdays to Tuesdays at 9:00 AM PST starting July 30<sup>th</sup>.

Erik Peterson will email the agenda prior to the meeting.

→ **Join by Phone**

**Conference Line/Code / Ex. 6**

→ **Meeting Organizer**

Erik Peterson, USEPA (206) 553-6382 office

Message

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**From:** Nogi, Jill [nogi.jill@epa.gov]  
**Sent:** 4/10/2018 3:34:35 PM  
**To:** McGrath, Patricia [mcgrath.patricia@epa.gov]  
**CC:** Allnutt, David [Allnutt.David@epa.gov]  
**Subject:** FW: BB check-in

Hi Patty,

When you send highlights or updates to David on the project, please also copy me as well as the folks you have below, so that I have the same updates. I appreciate it!

Thanks – Jill

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**From:** McGrath, Patricia  
**Sent:** Friday, April 06, 2018 2:17 PM  
**To:** Allnutt, David <Allnutt.David@epa.gov>  
**Cc:** Vaughan, Molly <Vaughan.Molly@epa.gov>; Combes, Marcia <Combes.Marcia@epa.gov>; Palomaki, Ashley <Palomaki.Ashley@epa.gov>  
**Subject:** BB check-in

Hi David-

**Personal Matters / Ex. 6**

Molly will be providing NEPA/permitting input into the check-in call on Wednesday.

Highlights for this week include:

- Corps extended scoping period to now end on June 29
- Suzanne posted a blurb on our BB site about the EIS and link to Corps' Pebble website. I informed the Corps of this.
- Additional scoping meeting added in New Stuyahok.
- Most cooperating agencies are not participating in the scoping meetings. Exception is the State who will be at the meetings next week. BSEE is attending the Homer and Anchorage meeting. The Corps is providing a conference line. Molly, Neverly, or myself will be calling into the scoping meetings to listen in (except for Homer, Anchorage, and Dillingham). Molly will attend the Anchorage meeting.
- Molly and I had a call with ORD this week. I expect we will get assistance from ORD on fisheries, transportation, and hydrology (though need to verify with hydrologists)
- Molly is off to a good start on our scoping letter
- Based on a call with the Corps today, we will be setting up a 404 strategy meeting between EPA and Corps in May. I will work on that (attendees, agenda, timing, internal strategy) when I return.

Have a good week.

Patty

**Patty McGrath | Mining Advisor**

U.S. Environmental Protection Agency, Region 10

1200 Sixth Avenue, Seattle, WA 98101

M/S: RAD-202

Office: (206) 553-6113

Cell: (206) 743-7068

[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)

Message

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**From:** McGrath, Patricia [mcgrath.patricia@epa.gov]  
**Sent:** 5/22/2018 7:50:47 PM  
**To:** R10-OERA Calendar [R10-OERA\_Calendar@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; LaCroix, Matthew [LaCroix.Matthew@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Combes, Marcia [Combes.Marcia@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]; Szerlog, Michael [Szerlog.Michael@epa.gov]  
**CC:** Stern, Allyn [Stern.Allyn@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]  
**Subject:** RE: Bristol Bay Check-in

-----Original Appointment-----

**From:** R10-OERA Calendar  
**Sent:** Monday, February 5, 2018 10:13 AM  
**To:** R10-OERA Calendar; Lindsay, Andrea; Skadowski, Suzanne; Nogi, Jill; Peterson, Erik; Nalven, Heidi; Fordham, Tami; Allnutt, David; Anderson-Carnahan, Linda; McGrath, Patricia; Palomaki, Ashley; Steiner-Riley, Cara; LaCroix, Matthew; Vaughan, Molly; Hough, Palmer; Combes, Marcia; Mendelman, Krista; Szerlog, Michael  
**Cc:** Stern, Allyn; Douglas, Mark  
**Subject:** Bristol Bay Check-in  
**When:** Wednesday, May 23, 2018 9:00 AM-10:00 AM (UTC-08:00) Pacific Time (US & Canada).  
**Where:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center; **Conference Line/Code / Ex. 6**

## Conference Line/Code / Ex. 6

Meeting agenda:

### NEPA/permitting team

- Welcoming Mark Douglas
- Scoping letter status
- PLP project description updates
- June 6 cooperating agency meeting
- DNR announcement regarding Bristol Bay Advisory Group

### 404c team

- FOIA
- PLP response
- Congressional Western Caucus response
- HAC QFR response
- FYI correspondence

Message

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**From:** Frazer, Brian [Frazer.Brian@epa.gov]  
**Sent:** 6/6/2018 7:36:38 PM  
**To:** Tomiak, Robert [tomiak.robert@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]  
**CC:** Feeley, Drew (Robert) [Feeley.Drew@epa.gov]; Goodin, John [Goodin.John@epa.gov]; Knight, Kelly [knight.kelly@epa.gov]; Kaiser, Russell [Kaiser.Russell@epa.gov]  
**Subject:** RE: Pebble mine brief

Rob,

Yes, I would like to be on the call and will be available this Friday.

Thanks.

bf

-----Original Message-----

From: Tomiak, Robert  
Sent: Wednesday, June 06, 2018 3:09 PM  
To: Allnutt, David <Allnutt.David@epa.gov>; Frazer, Brian <Frazer.Brian@epa.gov>  
Cc: Feeley, Drew (Robert) <Feeley.Drew@epa.gov>; Goodin, John <Goodin.John@epa.gov>; Knight, Kelly <knight.kelly@epa.gov>; Kaiser, Russell <Kaiser.Russell@epa.gov>  
Subject: Pebble mine brief

Brian,

David and I are scheduled to discuss the option of a joint project brief to OW and OP.

Would you like to join our Friday 11am coord call? Or plug anyone else in from OW....?

Thanks, Rob



Message

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**From:** Duncan, Bruce [Duncan.Bruce@epa.gov]  
**Sent:** 5/4/2018 3:55:13 PM  
**To:** Burden, Susan [Burden.Susan@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]  
**CC:** LaVay, Maggie [LaVay.Maggie@epa.gov]; Blank, Valerie [Blank.Valerie@epa.gov]; Lavoie, Emma [Lavoie.Emma@epa.gov]; Walton, Barb [Walton.Barb@epa.gov]; Hartzell, Evelyn [hartzell.evelyn@epa.gov]  
**Subject:** RE: ORD support for Pebble EIS  
**Attachments:** FW: NHEERL support for Pebble EIS

Thank you Susan;

We very much appreciate your timely response and inreach within ORD on our high priority regional request. I have copied Patty McGrath (Lead), David Allnutt (Office Director) and Jill Nogi (Unit Manager) in our Office of Environmental Review and Assessment.

-----

Patty, Jill, and David;

- Paul Ringold would like to (see attachment):  
Develop fairly formal quarterly progress meetings or discussions to make sure that the work requested and performed is on track and continues to function within the boundaries of our original agreements.  
  
Discuss the possibility of regional funding to assist ORD technical experts in keeping engaged with the EIS process. This may be particularly important as the experts will be spending only a small fraction of their time on this effort. Having someone to stay engaged with the EIS and with the science requirements and issues involved on their behalf could facilitate the efficient and effective use of their time and effort.
- Although no hydrologist has been identified, Steve Kraemer (NERL) has been suggested as a possible option.
- Additionally, Barb Butler, an author of the Bristol Bay assessment, is willing to assist in areas not mentioned in the original request that might come up in the future, including reviews of water quality data (groundwater or surface water), mining materials testing data (e.g., kinetic and static leaching tests), sampling/analysis design, and mitigation/treatment options for control of water quality (e.g., management of wastes to minimize leaching/seepage issues, fate and transport of constituents in water if mine drainage is formed, and treatment of drainage).
- ORD indicated they do not have travel funds for their staff for this effort.

Let me know if I can be of further help.

Bruce

Bruce Duncan  
*Regional Science Liaison to Office of Research & Development*

U.S. Environmental Protection Agency | Region 10  
1200-6th Ave, Suite #155, Mail Stop OERA-140; Seattle, WA 98101-3140  
206.553.0218 | [duncan.bruce@epa.gov](mailto:duncan.bruce@epa.gov)

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**From:** Burden, Susan  
**Sent:** Friday, May 04, 2018 4:26 AM  
**To:** Duncan, Bruce <Duncan.Bruce@epa.gov>  
**Cc:** LaVay, Maggie <LaVay.Maggie@epa.gov>; Blank, Valerie <Blank.Valerie@epa.gov>; Lavoie, Emma <Lavoie.Emma@epa.gov>; Walton, Barb <Walton.Barb@epa.gov>; Hartzell, Evelyn <hartzell.evelyn@epa.gov>  
**Subject:** FW: ORD support for Pebble EIS  
**Importance:** High

Hi Bruce,

Valerie shared this request with me last week, and I've worked with ORD's Program Support Coordinators to identify ORD staff available to work with R10 on the Pebble Mine EIS. As you know, R10 requested specific people and expertise for the project. I'm happy to report that Joe Ebersole, Michael Kravitz, and Kate Schofield are all available for this effort. Unfortunately, we were not able to identify anyone with the requested hydrology expertise. The hydrologists who worked on the Bristol Bay assessment are no longer with ORD (Jim Wiggington retired and Jason Todd is now with OCSPP).

Additionally, Barb Butler, an author of the Bristol Bay assessment, is willing to assist in other areas (aka, areas not mentioned in the original request) that might come up in the future with respect to this mine site, including reviews of water quality data (groundwater or surface water), mining materials testing data (e.g., kinetic and static leaching tests), sampling/analysis design, and mitigation/treatment options for control of water quality (e.g., management of wastes to minimize leaching/seepage issues, fate and transport of constituents in water if mine drainage is formed, and treatment of drainage).

Finally, Paul Ringold, Joe Ebersole's branch chief, has asked for a follow up conversation with Patty McGrath (or R10's lead on the Pebble Mine EIS, if it is not Patty) to discuss Joe's participation. Paul's specific requests are in the attached email. Also, please note that the attached email chain indicates that Joe is available for up to 10% of his time for two years.

I'm assuming that you'll pass this information onto Patty. Please let me know if you need anything else from me.

Thanks,

Susan

Susan Burden, Ph.D.  
Acting Chief, Program Support Staff  
Office of Science Policy  
Office of Research and Development  
US Environmental Protection Agency  
Phone: (202) 564-6308  
Email: [burden.susan@epa.gov](mailto:burden.susan@epa.gov)

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**From:** Blank, Valerie  
**Sent:** Thursday, April 26, 2018 12:12 PM  
**To:** Burden, Susan <Burden.Susan@epa.gov>  
**Cc:** LaVay, Maggie <LaVay.Maggie@epa.gov>  
**Subject:** FW: ORD support for Pebble EIS  
**Importance:** High

fyi

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**From:** Duncan, Bruce  
**Sent:** Tuesday, April 24, 2018 2:41 PM  
**To:** LaVay, Maggie <LaVay.Maggie@epa.gov>; Blank, Valerie <Blank.Valerie@epa.gov>  
**Cc:** Allnutt, David <Allnutt.David@epa.gov>; Nogi, Jill <nogi.jill@epa.gov>; Vaughan, Molly <Vaughan.Molly@epa.gov>; McGrath, Patricia <mcgrath.patricia@epa.gov>; Hagerthey, Scot <Hagerthey.Scot@epa.gov>; Ebersole, Joe <Ebersole.Joe@epa.gov>  
**Subject:** FW: ORD support for Pebble EIS  
**Importance:** High

Dear Maggie and Val,

Please find attached the Region 10 technical support request form for assistance. This is a high priority for R10 and we look forward to support starting as soon as possible. Our Regional Mining Advisor has been discussing the specifics with ORD Scientists already so this will not come as a surprise. Let me know of any next steps and how I can assist with the support request.

Bruce

Bruce Duncan  
*Regional Science Liaison to Office of Research & Development*

U.S. Environmental Protection Agency | Region 10  
1200-6th Ave, Suite #155, Mail Stop OERA-140; Seattle, WA 98101-3140  
206.553.0218 | [duncan.bruce@epa.gov](mailto:duncan.bruce@epa.gov)

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**From:** McGrath, Patricia  
**Sent:** Tuesday, April 24, 2018 8:33 AM  
**To:** Duncan, Bruce <Duncan.Bruce@epa.gov>  
**Cc:** Allnutt, David <Allnutt.David@epa.gov>; Nogi, Jill <nogi.jill@epa.gov>; Vaughan, Molly <Vaughan.Molly@epa.gov>  
**Subject:** RE: ORD support for Pebble EIS

Hi Bruce-

Attached is the completed form. Please let me know if you need more information.

We would like some immediate assistance from Joe Ebersole to help us with scoping comments (due before the end of June) if that can be arranged.

Thanks-

Patty

---

**From:** Duncan, Bruce  
**Sent:** Monday, April 23, 2018 4:21 PM  
**To:** McGrath, Patricia <mcgrath.patricia@epa.gov>  
**Cc:** Allnutt, David <Allnutt.David@epa.gov>; Vaughan, Molly <Vaughan.Molly@epa.gov>; Nogi, Jill <nogi.jill@epa.gov>; Hagerthey, Scot <Hagerthey.Scot@epa.gov>  
**Subject:** RE: ORD support for Pebble EIS

Thanks Patti,

Here is a link to the form that OSP uses (from the R10 Science Steering Council SharePoint)

SUBMIT A TECHNICAL SUPPORT REQUEST:

Request Form - this form (Click [HERE](#)) is submitted to OSP who will help find the ORD support if available.

The form is pretty simple – if you need help I can arrange the information you provided into the desired format:

| ORD Regional Decision Support Request  |             |
|--|-------------|
| <b>Initiating Region and Division</b><br>Region 10   | <b>Date</b> |
| <b>Contact Information</b><br>Name:<br>Phone Number:<br>Email:   |             |
| <b>Project Title</b>   |             |
| <b>Type of Scientific Support Requested</b><br><input type="checkbox"/> Consultative advice<br><input type="checkbox"/> Workgroup/seminar/committee participation<br><input type="checkbox"/> Document review<br>Other (please specify)  |             |
| <b>Description of Science Need – One-time request</b><br><u>Background &amp; Problem.</u><br><br><u>Assistance Needed/Research Steps</u>   |             |
| <b>Project Milestones and Due Date</b>   |             |
| <b>Estimated number of hours required to complete request</b><br><input type="checkbox"/> 1 – 4 hours <input type="checkbox"/> 8 – 16 hours<br><input type="checkbox"/> 4 – 8 hours <input type="checkbox"/> >16 hours<br>If >16, please provide an estimate of the hours needed |             |
| <b>Type of expertise needed</b> (e.g., human health risk assessment, aquatic toxicology)   |             |
| <b>Have you worked with ORD scientists on this project previously?</b><br><input type="checkbox"/> Yes <input type="checkbox"/> No   |             |
| <b>If yes, please list the names of the scientists.</b>  |             |
| <b>Regional Priority</b> (To be completed by Regional Science Liaison – Bruce Duncan)<br><input type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low  |             |

---

**From:** McGrath, Patricia

**Sent:** Monday, April 23, 2018 1:46 PM

**To:** Duncan, Bruce <[Duncan.Bruce@epa.gov](mailto:Duncan.Bruce@epa.gov)>

**Cc:** Allnutt, David <[Allnutt.David@epa.gov](mailto:Allnutt.David@epa.gov)>; Vaughan, Molly <[Vaughan.Molly@epa.gov](mailto:Vaughan.Molly@epa.gov)>; Nogi, Jill <[nogi.jill@epa.gov](mailto:nogi.jill@epa.gov)>; Hagerthey, Scot <[Hagerthey.Scot@epa.gov](mailto:Hagerthey.Scot@epa.gov)>

**Subject:** ORD support for Pebble EIS

Hello Bruce-

Last week I spoke with Scot Hagerthey regarding ORD support for our cooperating agency participation in the Pebble EIS. He acknowledged that ORD folks are interested and available and requested that I send the request for ORD support through you. Can you let me know how you like to see these requests. Is an email from me sufficient? Following is the support that is needed.

Request for ORD Support for Pebble Environmental Impact Statement

The US Army Corps of Engineers is the lead agency in developing an EIS for the Pebble Mine Project in Alaska. The Corps invited EPA to be a cooperating agency to assist the Corps in developing sections of the EIS. In addition, EPA is responsible for reviewing the Draft EIS and the public notice for the CWA 404 permit application. EPA Region 10 has put together a team to accomplish these responsibilities. There are several areas where EPA is requesting support from ORD to bolster EPA's review team and also benefit from ORD's past work in the Bristol Bay watershed where the mine project is located. From 2011 to 2014, EPA Region 10 and EPA's Office of Water worked with ORD in developing the Bristol Bay Watershed Assessment. ORD's experience and understanding of the watershed and potential impacts that could occur during mining will provide needed support to EPA Region 10's NEPA/permit review team in several key areas.

The key areas where we are requesting support are identified below.

| Specialty      | Summary of Assistance Requested   | ORD staff requested   |
|----------------|---|---|
| Fisheries      | Provide advice to EPA's team on fisheries issues<br>Provide input into EIS scoping letter<br>Review baseline data<br>Recommend aquatic resources impact assessment methodologies<br>Participate in fisheries technical working group<br>Review and provide comments on fisheries sections of the EIS                          | Joe Ebersole  |
| Hydrology      | Provide advice to EPA's team on hydrology issues<br>Review groundwater and surface water hydrology baseline data<br>Recommend impact assessment methodologies and modelling approaches and review results<br>Participate in hydrology technical working group<br>Review and provide comments on hydrology sections of the EIS | The ORD hydrologist that assisted with the Bristol Bay watershed assessment has retired. We do need support in this area and request that ORD identify individuals that can assist. |
| Transportation | Provide advice to EPA's team on transportation issues<br>Review and provide comments on transportation sections of the EIS  | Michael Kravitz   |
| Coordination   | Participate in monthly Pebble NEPA/permit team to assist with coordinating ORD support<br>Potentially review sections of the EIS  | Kate Schofield  |

In terms of timing, we are requesting ORDs immediate assistance to help with baseline data review and development of EPA's EIS scoping letter. We expect that assistance will be needed throughout the EIS process, with times of intense activity when documents are being reviewed and times with very little activity. The EIS process will take at least two years. There may be additional areas where we need support as the EIS process moves forward.

Please let me know if you need additional information.

Thanks-

Patty

**Patty McGrath | Mining Advisor**

U.S. Environmental Protection Agency, Region 10

1200 Sixth Avenue, Seattle, WA 98101

M/S: RAD-202

Office: (206) 553-6113

Cell: (206) 743-7068

[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)

Message

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**From:** Ringold, Paul [Ringold.Paul@epa.gov]  
**Sent:** 5/3/2018 1:45:50 AM  
**To:** Burden, Susan [Burden.Susan@epa.gov]  
**CC:** Thornhill, Alan [thornhill.alan@epa.gov]; Ebersole, Joe [Ebersole.Joe@epa.gov]; Fisher, Bill [Fisher.William@epa.gov]; Saterson, Kathryn [Saterson.Kathryn@epa.gov]; Walton, Barb [Walton.Barb@epa.gov]  
**Subject:** FW: NHEERL support for Pebble EIS

**Importance:** High

Hi Susan,

I wanted to follow up on some fine points associated with our offer to make Joe available to assist with the Pebble mine EIS.

The first is that I would hope that we could agree with R10 on fairly formal quarterly progress meetings or discussions to make sure that the work requested and performed is on track and continues to function within the boundaries of our original agreements.

The second is to inquire as to the possibility of providing funds that could be used to assist the multiple ORD technical experts in keeping engaged with the EIS process. This may be particularly important as they will be spending only a small fraction of their time on this effort. Having someone to stay engaged with the EIS and with the science requirements and issues involved on their behalf could facilitate the efficient and effective use of the time and effort of the ORD experts.

If you could convey these queries directly the R10 or identify someone in the Region with whom I could consult on these queries, I would be most appreciative.

Thanks for your assistance, Susan.

Paul L. Ringold, Ph.D.  
Supervisory Biologist, Chief  
Freshwater Ecology Branch  
Western Ecology Division  
National Health and Environmental Effects Research Laboratory  
Office of Research and Development  
U.S. Environmental Protection Agency  
200 SW 35<sup>th</sup> Street  
Corvallis, OR 97330

and

Leader, Final Ecosystem Goods and Services Task (SHC 2.61.2)  
Community-Based Ecosystem Goods and Services Project (SHC 2.61)  
Sustainable and Healthy Communities Research Program

Phone: 541-754-4565  
ringold.paul@epa.gov

---

**From:** Walton, Barb  
**Sent:** Tuesday, May 01, 2018 10:20 AM

**To:** Burden, Susan <Burden.Susan@epa.gov>

**Cc:** Thornhill, Alan <thornhill.alan@epa.gov>; Ringold, Paul <Ringold.Paul@epa.gov>; Ebersole, Joe <Ebersole.Joe@epa.gov>; Fisher, Bill <Fisher.William@epa.gov>; Saterson, Kathryn <Saterson.Kathryn@epa.gov>

**Subject:** FW: NHEERL support for Pebble EIS

**Importance:** High

Susan,

I'm pleased to confirm that Dr. Ebersole, his Branch Chief, and Division Director have approved Joe's participation in the Pebble Mine EIS activity for up to 10% of his time for up to two years.

Should the demand for his time exceed this, Drs. Ringold and Thornhill would like to re-evaluate the demand to ensure that Joe is not overcommitted.

This commitment does not include travel funds. Should travel be required, alternative sources of travel funds will be needed.

Thank you for the opportunity to have NHEERL staff contribute to this important work of the Agency.

Joe would appreciate receiving any supplemental info on Pebble Mine germane to the EIS.

Best regards,  
~Barb

---

**From:** Walton, Barb

**Sent:** Friday, April 27, 2018 6:30 AM

**To:** Ringold, Paul <Ringold.Paul@epa.gov>; Ebersole, Joe <Ebersole.Joe@epa.gov>

**Cc:** Thornhill, Alan <thornhill.alan@epa.gov>; Fisher, Bill <Fisher.William@epa.gov>; Burden, Susan <Burden.Susan@epa.gov>; Saterson, Kathryn <Saterson.Kathryn@epa.gov>; Rashleigh, Brenda <Rashleigh.Brenda@epa.gov>

**Subject:** RE: ORD support for Pebble EIS

**Importance:** High

Paul,

Technical expertise of Dr. Joe Ebersole has been requested through the Office of Science Policy for his knowledge of fisheries and related matters of interest for the Pebble Mine EIS. The attached technical support request form has more information on the scope of the project and anticipated time needed.

**Please let me know if Joe is available to assist on this project and if you know of any other individuals with expertise relevant to the Pebble Mine EIS** who might be willing to assist.

A speedy RSVP would be much appreciated! ☺  
~Barb

Barbara T. Walton, Ph.D., D.A.B.T., M.B.A.

Assistant Laboratory Director

National Health and Environmental Effects Research Laboratory

U.S. Environmental Protection Agency

Research Triangle Park, North Carolina, 27711

919-541-7776; Cell: 919-943-0996

[walton.barb@epa.gov](mailto:walton.barb@epa.gov)



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**From:** Burden, Susan

**Sent:** Friday, April 27, 2018 8:32 AM

**To:** Hartzell, Evelyn <hartzell.evelyn@epa.gov>; Riddick, Lee <Riddick.Lee@epa.gov>; Lavoie, Emma <Lavoie.Emma@epa.gov>; Walton, Barb <Walton.Barb@epa.gov>

**Cc:** Stroup, Gene <Stroup.Gene@epa.gov>; Blank, Valerie <Blank.Valerie@epa.gov>

**Subject:** FW: ORD support for Pebble EIS

**Importance:** High

Hi all,

As we discussed yesterday, attached is the R10 request for ORD technical support on the Pebble Mine EIS. Information about the EIS and the anticipated workload can be found in the attached file. The attached file also includes the type of expertise needed, which is copy and pasted below. Please note that R10 has requested specific ORD people for specific areas of expertise.

**Please let me know if the requested ORD people are available for this project, or if there are other technical experts available by COB, May 3.** This is a high-priority for R10, and we would like to get a response to R10 by the end of next week.

Please let me know if you have any questions. Thank you!

| Specialty      | Summary of Assistance Requested   | ORD staff requested  |
|----------------|---|--|
| Fisheries      | Provide advice to EPA's team on fisheries issues<br>Provide input into EIS scoping letter<br>Review baseline data<br>Recommend aquatic resources impact assessment methodologies<br>Participate in fisheries technical working group<br>Review and provide comments on fisheries sections of the EIS                          | <b>Joe Ebersole</b>  |
| Hydrology      | Provide advice to EPA's team on hydrology issues<br>Review groundwater and surface water hydrology baseline data<br>Recommend impact assessment methodologies and modelling approaches and review results<br>Participate in hydrology technical working group<br>Review and provide comments on hydrology sections of the EIS | The ORD hydrologist that assisted with the Bristol Bay watershed assessment has retired. We do need support in this area and request that ORD identify individuals that can assist.<br><br>Note from Susan: Jason Todd and Jim Wigington worked on the hydrology part. Jason is now with OCSPP and Jim has retired. Perhaps Steve Kraemer (NERL) would be a good option. |
| Transportation | Provide advice to EPA's team on transportation issues<br>Review and provide comments on transportation sections of the EIS  | Michael Kravitz  |
| Coordination   | Participate in monthly Pebble NEPA/permit team to assist with coordinating ORD support<br>Potentially review sections of the EIS  | Kate Schofield   |

Thanks,

Susan

Susan Burden, Ph.D.  
Acting Chief, Program Support Staff  
Office of Science Policy  
Office of Research and Development  
US Environmental Protection Agency  
Phone: (202) 564-6308  
Email: [burden.susan@epa.gov](mailto:burden.susan@epa.gov)

---

**From:** Blank, Valerie  
**Sent:** Thursday, April 26, 2018 12:12 PM  
**To:** Burden, Susan <[Burden.Susan@epa.gov](mailto:Burden.Susan@epa.gov)>  
**Cc:** LaVay, Maggie <[LaVay.Maggie@epa.gov](mailto:LaVay.Maggie@epa.gov)>  
**Subject:** FW: ORD support for Pebble EIS  
**Importance:** High

fyi

---

**From:** Duncan, Bruce  
**Sent:** Tuesday, April 24, 2018 2:41 PM  
**To:** LaVay, Maggie <[LaVay.Maggie@epa.gov](mailto:LaVay.Maggie@epa.gov)>; Blank, Valerie <[Blank.Valerie@epa.gov](mailto:Blank.Valerie@epa.gov)>  
**Cc:** Allnutt, David <[Allnutt.David@epa.gov](mailto:Allnutt.David@epa.gov)>; Nogi, Jill <[nogi.jill@epa.gov](mailto:nogi.jill@epa.gov)>; Vaughan, Molly <[Vaughan.Molly@epa.gov](mailto:Vaughan.Molly@epa.gov)>; McGrath, Patricia <[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)>; Hagerthey, Scot <[Hagerthey.Scot@epa.gov](mailto:Hagerthey.Scot@epa.gov)>; Ebersole, Joe <[Ebersole.Joe@epa.gov](mailto:Ebersole.Joe@epa.gov)>  
**Subject:** FW: ORD support for Pebble EIS  
**Importance:** High

Dear Maggie and Val,

Please find attached the Region 10 technical support request form for assistance. This is a high priority for R10 and we look forward to support starting as soon as possible. Our Regional Mining Advisor has been discussing the specifics with ORD Scientists already so this will not come as a surprise. Let me know of any next steps and how I can assist with the support request.

Bruce

Bruce Duncan  
*Regional Science Liaison to Office of Research & Development*

U.S. Environmental Protection Agency | Region 10  
1200-6th Ave, Suite #155, Mail Stop OERA-140; Seattle, WA 98101-3140  
206.553.0218 | [duncan.bruce@epa.gov](mailto:duncan.bruce@epa.gov)

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**From:** McGrath, Patricia  
**Sent:** Tuesday, April 24, 2018 8:33 AM  
**To:** Duncan, Bruce <[Duncan.Bruce@epa.gov](mailto:Duncan.Bruce@epa.gov)>

**Cc:** Allnutt, David <Allnutt.David@epa.gov>; Nogi, Jill <nogi.jill@epa.gov>; Vaughan, Molly <Vaughan.Molly@epa.gov>

**Subject:** RE: ORD support for Pebble EIS

Hi Bruce-

Attached is the completed form. Please let me know if you need more information.

We would like some immediate assistance from Joe Ebersole to help us with scoping comments (due before the end of June) if that can be arranged.

Thanks-

Patty

---

**From:** Duncan, Bruce

**Sent:** Monday, April 23, 2018 4:21 PM

**To:** McGrath, Patricia <mcgrath.patricia@epa.gov>

**Cc:** Allnutt, David <Allnutt.David@epa.gov>; Vaughan, Molly <Vaughan.Molly@epa.gov>; Nogi, Jill <nogi.jill@epa.gov>;

Hagerthey, Scot <Hagerthey.Scot@epa.gov>

**Subject:** RE: ORD support for Pebble EIS

Thanks Patti,

Here is a link to the form that OSP uses (from the R10 Science Steering Council SharePoint)

## SUBMIT A TECHNICAL SUPPORT REQUEST:

Request Form - this form (Click [HERE](#)) is submitted to OSP who will help find the ORD support if available.

The form is pretty simple – if you need help I can arrange the information you provided into the desired format:

| ORD Regional Decision Support Request   |             |
|---|-------------|
| <b>Initiating Region and Division</b><br>Region 10  | <b>Date</b> |
| <b>Contact Information</b><br>Name:<br>Phone Number:<br>Email:  |             |
| <b>Project Title</b>  |             |
| <b>Type of Scientific Support Requested</b><br><input type="checkbox"/> Consultative advice<br><input type="checkbox"/> Workgroup/seminar/committee participation<br><input type="checkbox"/> Document review<br>Other (please specify) |             |
| <b>Description of Science Need – One-time request</b><br><u>Background &amp; Problem.</u><br><br><u>Assistance Needed/Research Steps</u>  |             |

|  |
|--|
| <b>Project Milestones and Due Date</b>   |
| <b>Estimated number of hours required to complete request</b><br><input type="checkbox"/> 1 – 4 hours <input type="checkbox"/> 8 – 16 hours<br><input type="checkbox"/> 4 – 8 hours <input type="checkbox"/> >16 hours<br>If >16, please provide an estimate of the hours needed |
| <b>Type of expertise needed</b> (e.g., human health risk assessment, aquatic toxicology)   |
| <b>Have you worked with ORD scientists on this project previously?</b><br><input type="checkbox"/> Yes <input type="checkbox"/> No   |
| <b>If yes, please list the names of the scientists.</b>  |
| <b>Regional Priority</b> (To be completed by Regional Science Liaison – Bruce Duncan)<br><input type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low  |

**From:** McGrath, Patricia  
**Sent:** Monday, April 23, 2018 1:46 PM  
**To:** Duncan, Bruce <[Duncan.Bruce@epa.gov](mailto:Duncan.Bruce@epa.gov)>  
**Cc:** Allnutt, David <[Allnutt.David@epa.gov](mailto:Allnutt.David@epa.gov)>; Vaughan, Molly <[Vaughan.Molly@epa.gov](mailto:Vaughan.Molly@epa.gov)>; Nogi, Jill <[nogi.jill@epa.gov](mailto:nogi.jill@epa.gov)>; Hagerthey, Scot <[Hagerthey.Scot@epa.gov](mailto:Hagerthey.Scot@epa.gov)>  
**Subject:** ORD support for Pebble EIS

Hello Bruce-

Last week I spoke with Scot Hagerthey regarding ORD support for our cooperating agency participation in the Pebble EIS. He acknowledged that ORD folks are interested and available and requested that I send the request for ORD support through you. Can you let me know how you like to see these requests. Is an email from me sufficient? Following is the support that is needed.

Request for ORD Support for Pebble Environmental Impact Statement

The US Army Corps of Engineers is the lead agency in developing an EIS for the Pebble Mine Project in Alaska. The Corps invited EPA to be a cooperating agency to assist the Corps in developing sections of the EIS. In addition, EPA is responsible for reviewing the Draft EIS and the public notice for the CWA 404 permit application. EPA Region 10 has put together a team to accomplish these responsibilities. There are several areas where EPA is requesting support from ORD to bolster EPA's review team and also benefit from ORD's past work in the Bristol Bay watershed where the mine project is located. From 2011 to 2014, EPA Region 10 and EPA's Office of Water worked with ORD in developing the Bristol Bay Watershed Assessment. ORD's experience and understanding of the watershed and potential impacts that could occur during mining will provide needed support to EPA Region 10's NEPA/permit review team in several key areas.

The key areas where we are requesting support are identified below.

| Specialty | Summary of Assistance Requested  | ORD staff requested |
|-----------|--|---------------------|
| Fisheries | Provide advice to EPA's team on fisheries issues<br>Provide input into EIS scoping letter<br>Review baseline data<br>Recommend aquatic resources impact assessment methodologies<br>Participate in fisheries technical working group | Joe Ebersole        |

|                |   |   |
|----------------|---|---|
|                | Review and provide comments on fisheries sections of the EIS  |   |
| Hydrology      | Provide advice to EPA's team on hydrology issues<br>Review groundwater and surface water hydrology baseline data<br>Recommend impact assessment methodologies and modelling approaches and review results<br>Participate in hydrology technical working group<br>Review and provide comments on hydrology sections of the EIS | The ORD hydrologist that assisted with the Bristol Bay watershed assessment has retired. We do need support in this area and request that ORD identify individuals that can assist. |
| Transportation | Provide advice to EPA's team on transportation issues<br>Review and provide comments on transportation sections of the EIS  | Michael Kravitz   |
| Coordination   | Participate in monthly Pebble NEPA/permit team to assist with coordinating ORD support<br>Potentially review sections of the EIS  | Kate Schofield  |

In terms of timing, we are requesting ORDs immediate assistance to help with baseline data review and development of EPA's EIS scoping letter. We expect that assistance will be needed throughout the EIS process, with times of intense activity when documents are being reviewed and times with very little activity. The EIS process will take at least two years. There may be additional areas where we need support as the EIS process moves forward.

Please let me know if you need additional information.  
Thanks-

Patty

**Patty McGrath | Mining Advisor**

U.S. Environmental Protection Agency, Region 10  
1200 Sixth Avenue, Seattle, WA 98101

M/S: RAD-202

Office: (206) 553-6113

Cell: (206) 743-7068

[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)

Message

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**From:** Gahner, Pamela [gahner.pamela@epa.gov]  
**Sent:** 6/5/2018 9:11:22 PM  
**To:** Allnutt, David [Allnutt.David@epa.gov]  
**Subject:** RE: RA drop in

I just tried calling Chalon Harrington and got her Voicemail so I will let you know what she says when she calls me back.

Pam

---

**From:** Allnutt, David  
**Sent:** Tuesday, June 5, 2018 1:22 PM  
**To:** Gahner, Pamela <gahner.pamela@epa.gov>  
**Cc:** Steiner-Riley, Cara <Steiner-Riley.Cara@epa.gov>; Palomaki, Ashley <Palomaki.Ashley@epa.gov>  
**Subject:** RE: RA drop in

Pam – could you check with the Pebble POC? I'm primarily attempting to determine whether ORC should be included.



**R. David Allnutt**, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581

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**From:** Gahner, Pamela  
**Sent:** Tuesday, June 05, 2018 1:03 PM  
**To:** Allnutt, David <Allnutt.David@epa.gov>  
**Subject:** RE: RA drop in

I do not know of anyone else accompanying him.

---

**From:** Allnutt, David  
**Sent:** Tuesday, June 5, 2018 12:58 PM  
**To:** Gahner, Pamela <gahner.pamela@epa.gov>  
**Subject:** RE: RA drop in

Yes – I knew it was me and Chris on the EPA side. My question was whether anyone would be accompanying Tom on behalf of Pebble.

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**R. David Allnutt**, Director  
Office of Environmental Review and Assessment

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U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581



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**From:** Gahner, Pamela  
**Sent:** Tuesday, June 05, 2018 12:21 PM  
**To:** Allnutt, David <[Allnutt.David@epa.gov](mailto:Allnutt.David@epa.gov)>  
**Subject:** FW: RA drop in

Hi David,  
Sorry I missed you. Thursday meeting is with Tom Collier from Pebble, Chris and you. Michelle Pirzadeh is the one who said I should add you to the invite. I know Tom is in Seattle attending other meetings and I do not know if anyone else is accompanying him. If there's someone else, EPA, I should invite please let me know.

Pam  
X2598

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**From:** Fraser, Michelle  
**Sent:** Tuesday, June 5, 2018 11:46 AM  
**To:** Gahner, Pamela <[gahner.pamela@epa.gov](mailto:gahner.pamela@epa.gov)>  
**Subject:** RA drop in

Hi Pam,

David Allnut stopped by wanting to check in regarding Chris' meeting on Thursday with the Pebble Limited Partnership. He specifically wanted to know who all was on the invite.

Thanks,

Michelle Fraser  
Office of Compliance and Enforcement  
(206) 553-4269  
[fraser.michelle@epa.gov](mailto:fraser.michelle@epa.gov)

EPA Region 10  
1200 Sixth Avenue  
Suite 155, M/S: OCE-101  
Seattle, WA 98101-3188

Message

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**From:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Sent:** 4/6/2018 6:02:19 PM  
**To:** Szerlog, Michael [Szerlog.Michael@epa.gov]  
**CC:** Allnutt, David [Allnutt.David@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]  
**Subject:** BB Funds Recommendation  
**Attachments:** Paralegal Contract Support for FOIA.DOCX; July 2017 Justification of Critical Need - FOIA services.pdf

Michael,

David, Ashley, Patty and I - and others involved in Bristol Bay work - have the following recommendation for you to share with HQ regarding your forecasted Bristol Bay funding request.

# Deliberative Process / Ex. 5

Thank you for continuing to track this issue and please let David, Patty, Ashley or I know if you have any questions.



**Erik Peterson**, NEPA Reviewer  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-6382

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**From:** Allnutt, David  
**Sent:** Friday, April 06, 2018 9:58 AM  
**To:** Peterson, Erik <Peterson.Erik@epa.gov>  
**Cc:** Palomaki, Ashley <Palomaki.Ashley@epa.gov>  
**Subject:** FW: FOIA Services Update

Eric – the latest on FOIA service contract. I think our \$10-15k estimate remains valid.

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**R. David Allnutt**, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155

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Seattle, Washington 98101-3140  
(206) 553-2581



**From:** Tyree, James

**Sent:** Friday, April 06, 2018 9:52 AM

**To:** Palomaki, Ashley <[Palomaki.Ashley@epa.gov](mailto:Palomaki.Ashley@epa.gov)>; Young, Margo <[Young.Margo@epa.gov](mailto:Young.Margo@epa.gov)>; Kercheval, Stephanie <[Kercheval.Stephanie@epa.gov](mailto:Kercheval.Stephanie@epa.gov)>; Whitmire, Yvette <[whitmire.yvette@epa.gov](mailto:whitmire.yvette@epa.gov)>; Ripley, Denise <[Ripley.Denise@epa.gov](mailto:Ripley.Denise@epa.gov)>; Lindsay, Nancy <[Lindsay.Nancy@epa.gov](mailto:Lindsay.Nancy@epa.gov)>; Stern, Allyn <[Stern.Allyn@epa.gov](mailto:Stern.Allyn@epa.gov)>; Denno, Donald <[Denno.Donald@epa.gov](mailto:Denno.Donald@epa.gov)>

**Cc:** Clever, Kathleen <[clever.kathleen@epa.gov](mailto:clever.kathleen@epa.gov)>; Beery, Daniel <[beery.daniel@epa.gov](mailto:beery.daniel@epa.gov)>; Allnutt, David <[Allnutt.David@epa.gov](mailto:Allnutt.David@epa.gov)>; Dalrymple, Anne <[Dalrymple.Anne@epa.gov](mailto:Dalrymple.Anne@epa.gov)>

**Subject:** FOIA Services Update

To all,

Here is the latest on our efforts to obtain longer term contract FOIA support for complex FOIAs with voluminous records:

**Non-Responsive: Unrelated to Bristol Bay/Pebble Mine**

**Next Steps:**

**Non-Responsive: Unrelated to Bristol Bay/Pebble Mine**

# **Non-Responsive: Unrelated to Bristol Bay/Pebble Mine**

Please let me know if you have any questions/comments.

**James T. Tyree**

Information Resource Manager

Information Services Unit, Office of Management Programs

US EPA Region 10

Phone: 206-553-1777

Mobile: 206-245-8602

Message

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**From:** Douglas, Mark [douglas.mark@epa.gov]  
**Sent:** 6/5/2018 7:18:53 PM  
**To:** Allnutt, David [Allnutt.David@epa.gov]  
**Subject:** RE: Bristol Bay Check-in

David,

Patty, Molly and I will be in the cooperating agency meeting tomorrow starting at 8am.

Mark Douglas  
Aquatic Resources Unit  
Office of Environmental Review & Assessment

U.S. Environmental Protection Agency  
Alaska Operations Office  
222 W. 7th Avenue, Box 19  
Anchorage, AK 99513-7588  
Phone (907) 271-1217

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**From:** Allnutt, David  
**Sent:** Tuesday, June 05, 2018 10:59 AM  
**To:** R10-OERA Calendar <R10-OERA\_Calendar@epa.gov>; Lindsay, Andrea <Lindsay.Andrea@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; Nogi, Jill <nogi.jill@epa.gov>; Peterson, Erik <Peterson.Erik@epa.gov>; Nalven, Heidi <Nalven.Heidi@epa.gov>; Fordham, Tami <Fordham.Tami@epa.gov>; Anderson-Carnahan, Linda <Anderson-Carnahan.Linda@epa.gov>; McGrath, Patricia <mcgrath.patricia@epa.gov>; Palomaki, Ashley <Palomaki.Ashley@epa.gov>; Steiner-Riley, Cara <Steiner-Riley.Cara@epa.gov>; LaCroix, Matthew <LaCroix.Matthew@epa.gov>; Vaughan, Molly <Vaughan.Molly@epa.gov>; Hough, Palmer <Hough.Palmer@epa.gov>; Combes, Marcia <Combes.Marcia@epa.gov>; Mendelman, Krista <Mendelman.Krista@epa.gov>; Szerlog, Michael <Szerlog.Michael@epa.gov>  
**Cc:** Stern, Allyn <Stern.Allyn@epa.gov>; Douglas, Mark <douglas.mark@epa.gov>  
**Subject:** RE: Bristol Bay Check-in

Team – are we holding our regular check-in tomorrow? I know that Erik and Patty (and perhaps others) are out tomorrow. There are a couple of topics that I'd like to update the group on if possible.



**R. David Allnutt**, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581

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-----Original Appointment-----

**From:** R10-OERA Calendar

**Sent:** Monday, February 05, 2018 10:13 AM

**To:** R10-OERA Calendar; Lindsay, Andrea; Skadowski, Suzanne; Nogi, Jill; Peterson, Erik; Nalven, Heidi; Fordham, Tami; Allnutt, David; Anderson-Carnahan, Linda; McGrath, Patricia; Palomaki, Ashley; Steiner-Riley, Cara; LaCroix, Matthew; Vaughan, Molly; Hough, Palmer; Combes, Marcia; Mendelman, Krista; Szerlog, Michael

**Cc:** Stern, Allyn; Douglas, Mark

**Subject:** Bristol Bay Check-in

**When:** Wednesday, June 06, 2018 9:00 AM-10:00 AM (UTC-08:00) Pacific Time (US & Canada).

**Where:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center; 6

**Conference Line/Code / Ex. 6**

**Conference Line/Code / Ex. 6**

Message

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**From:** McGrath, Patricia [mcgrath.patricia@epa.gov]  
**Sent:** 4/6/2018 2:03:40 PM  
**To:** Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Szerlog, Michael [Szerlog.Michael@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Bennett, Brittany [bennett.brittany@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Whitley, Annie [Whitley.Annie@epa.gov]  
**Subject:** RE: BB website - EIS info

Great. Thanks Suzanne

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**From:** Skadowski, Suzanne  
**Sent:** Friday, April 6, 2018 6:11 AM  
**To:** Allnutt, David <Allnutt.David@epa.gov>; McGrath, Patricia <mcgrath.patricia@epa.gov>; Peterson, Erik <Peterson.Erik@epa.gov>; Vaughan, Molly <Vaughan.Molly@epa.gov>; Palomaki, Ashley <Palomaki.Ashley@epa.gov>; Lindsay, Andrea <Lindsay.Andrea@epa.gov>; Szerlog, Michael <Szerlog.Michael@epa.gov>; Hough, Palmer <Hough.Palmer@epa.gov>; Bennett, Brittany <bennett.brittany@epa.gov>; Nogi, Jill <nogi.jill@epa.gov>; Fordham, Tami <Fordham.Tami@epa.gov>; Nalven, Heidi <Nalven.Heidi@epa.gov>; Whitley, Annie <Whitley.Annie@epa.gov>  
**Subject:** RE: BB website - EIS info

Hi Team,

We've updated our Bristol Bay webpage to include an intro and link to the Corps' permit review and EIS process.

<https://www.epa.gov/bristolbay>

Patty, we had to shorten your text due to space limitations, but I think this is fine, we directing folks to the Corps to get all the info.

Thank you!

**Suzanne Skadowski**  
Public Affairs | Media Relations Specialist  
U.S. Environmental Protection Agency  
Region 10 Pacific Northwest - Seattle  
O: 206-553-2160 C: 206-900-3309  
Twitter: @EPAnorthwest  
Facebook: @eparegion10

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**From:** Skadowski, Suzanne  
**Sent:** Thursday, April 5, 2018 9:42 AM  
**To:** Allnutt, David <Allnutt.David@epa.gov>; McGrath, Patricia <mcgrath.patricia@epa.gov>  
**Subject:** RE: BB website - EIS info

Thank you Patty and David!

I'll get our BB updated with this info this week.

**Suzanne Skadowski**

Public Affairs | Media Relations Specialist

U.S. Environmental Protection Agency

Region 10 Pacific Northwest - Seattle

O: 206-553-2160 C: 206-900-3309

Twitter: [@EPAnorthwest](#)Facebook: [@eparegion10](#)

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**From:** Allnutt, David**Sent:** Thursday, April 5, 2018 9:08 AM**To:** McGrath, Patricia <[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)>**Cc:** Skadowski, Suzanne <[Skadowski.Suzanne@epa.gov](mailto:Skadowski.Suzanne@epa.gov)>**Subject:** RE: BB website - EIS info

Patty – this language looks good.

**R. David Allnutt, Director**

Office of Environmental Review and Assessment

U.S. EPA, Region 10

1200 Sixth Avenue, Suite 900

Seattle, Washington 98101-3140

(206) 553-2581



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**From:** McGrath, Patricia**Sent:** Wednesday, April 04, 2018 6:01 PM**To:** Allnutt, David <[Allnutt.David@epa.gov](mailto:Allnutt.David@epa.gov)>**Cc:** Skadowski, Suzanne <[Skadowski.Suzanne@epa.gov](mailto:Skadowski.Suzanne@epa.gov)>**Subject:** BB website - EIS info

Hi David-

Taking into account suggested changes from Molly, Jill and Eric, below is the recommended blurb related to the EIS for EPA's Bristol Bay website.

Please let me know if you have additional edits.

thanks

Patty

**Environmental Impact Statement Process**

The U.S. Army Corps of Engineers received a Department of Army permit application and project description from the Pebble Limited Partnership on December 22, 2017 and has determined that an Environmental Impact Statement (EIS) under the National Environmental Policy Act (NEPA) is needed before it makes a decision on the permit application. The Corps is the lead agency in managing the NEPA process and developing the EIS. EPA is a cooperating agency in the EIS process, at the invitation of the Corps. The EIS will describe the proposed project and project alternatives, evaluate the potential impacts of the project and alternatives on the physical, biological, and social environment, and discuss measures to mitigate impacts. The purpose of the NEPA process is to help public officials make informed decisions that

are based on an understanding of environmental consequences and take federal agency actions that protect, restore, and enhance the environment.

The Corps initiated public scoping of the EIS on April 1, 2018. Below is a link to the Corps EIS website for more information and documents pertaining to the Department of Army permit application and the EIS process.

<https://www.pebbleprojecteis.com/#/>

**Patty McGrath | Mining Advisor**

U.S. Environmental Protection Agency, Region 10

1200 Sixth Avenue, Seattle, WA 98101

M/S: RAD-202

Office: (206) 553-6113

Cell: (206) 743-7068

[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)

Message

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**From:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Sent:** 7/16/2018 11:56:04 PM  
**To:** R10-OERA Calendar [R10-OERA\_Calendar@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Szerlog, Michael [Szerlog.Michael@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; LaCroix, Matthew [LaCroix.Matthew@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Marcia Combes (Combes.Marcia@epa.gov) [Combes.Marcia@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]  
**CC:** Douglas, Mark [douglas.mark@epa.gov]; Detwiler, Susan K. [detwiler.susan@epa.gov]  
**Subject:** RE: Bristol Bay Check-in

Hello,

I'm writing to cancel the 7/18 Bristol Bay Check-in on behalf of the EPA Bristol Bay 404(c) Team and Permit Oversight/NEPA Review Team. See the updates below for awareness of our ongoing Bristol Bay related activities.

Updates

Linda Anderson-Carnahan is acting w **Personal Matters / Ex. 6** We will continue Bristol Bay Check-ins with Linda during this time period. Our next scheduled check-in with Linda is for 30 minutes starting at 10 am PST on August 1<sup>st</sup>.

The 404(c) team is managing equity reviews and preparing non-equities documents for release for the Trustees for Alaska FOIA.

The Permit Oversight/NEPA Review team is reviewing preliminary EIS documents.

An EPA staff visit to the Pebble mine site is planned for 7/30 and 7/31.

A Pebble overview briefing for the new Alaska Operations Office Director, Sue Detwiler, is scheduled for July 23<sup>rd</sup> in Seattle.



**Erik Peterson**, NEPA Reviewer  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-6382

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-----Original Appointment-----

**From:** R10-OERA Calendar  
**Sent:** Monday, June 25, 2018 1:03 PM  
**To:** R10-OERA Calendar; Allnutt, David; Anderson-Carnahan, Linda; McGrath, Patricia; Palomaki, Ashley; Szerlog, Michael; Steiner-Riley, Cara; Lindsay, Andrea; Skadowski, Suzanne; Nogi, Jill; LaCroix, Matthew; Vaughan, Molly; Hough, Palmer; Peterson, Erik; Nalven, Heidi; Fordham, Tami; Marcia Combes (Combes.Marcia@epa.gov); Mendelman, Krista; Stern, Allyn  
**Cc:** Douglas, Mark; Detwiler, Susan K.  
**Subject:** FW: Bristol Bay Check-in



**When:** Wednesday, July 18, 2018 9:00 AM-10:00 AM (UTC-08:00) Pacific Time (US & Canada).

**Where:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Conference Line/Code / Ex. 6**

-----Original Appointment-----

**From:** Kelly, Christine M **On Behalf Of** R10-OERA Calendar

**Sent:** Wednesday, May 16, 2018 10:11 AM

**To:** R10-OERA Calendar; Allnutt, David; Anderson-Carnahan, Linda; McGrath, Patricia; Palomaki, Ashley; Szerlog, Michael; Steiner-Riley, Cara; Lindsay, Andrea; Skadowski, Suzanne; Nogi, Jill; LaCroix, Matthew; Vaughan, Molly; Hough, Palmer; Peterson, Erik; Nalven, Heidi; Fordham, Tami; Marcia Combes ([Combes.Marcia@epa.gov](mailto:Combes.Marcia@epa.gov)); Mendelman, Krista; Stern, Allyn

**Cc:** Douglas, Mark; Detwiler, Susan K.

**Subject:** Bristol Bay Check-in

**When:** Wednesday, July 18, 2018 9:00 AM-10:00 AM (UTC-08:00) Pacific Time (US & Canada).

**Where:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Conference Line/Code / Ex. 6**

## Appointment

---

**From:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Sent:** 7/11/2018 5:53:40 PM  
**To:** Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]  
**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]  
**Subject:** Bristol Bay Check-in  
**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center  
**Start:** 8/1/2018 5:00:00 PM  
**End:** 8/1/2018 5:30:00 PM  
**Show Time As:** Tentative

**Recurrence:** Weekly  
every 2 week(s) on Tuesday from 9:00 AM to 10:00 AM

Suggesting change to this meeting given scheduling constraints.

Erik Peterson will email the agenda prior to the meeting.

### → Join by Phone

**Conference Line/Code / Ex. 6**

### → Meeting Organizer

Erik Peterson, USEPA (206) 553-6382 office

Message

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**From:** Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]  
**Sent:** 5/8/2018 9:11:17 PM  
**To:** Thiesing, Mary [Thiesing.Mary@epa.gov]  
**CC:** Mendelman, Krista [Mendelman.Krista@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]  
**Subject:** proposed topics for Natl Wetland meeting round table (I have 9 min).

## Nonresponsive: Unrelated to Bristol Bay/Pebble Mine

### Ind. Projects

Pebble: proposed CWA 404(c) determination left in place;

Deliberative Process / Ex. 5

### Deliberative Process / Ex. 5

Deliberative Process / Ex. 5

Currently looking at application under the NEPA review. Time table has ROD issued in spring 2020. COE informed EPA they will only consider EPA comments regarding compliance with NEPA guidelines (we will send comments on all impacts we identify, e.g. impacts to groundwater, climate change). 90 days to submit NEPA scoping comments.

## Nonresponsive: Unrelated to Bristol Bay/Pebble Mine

# **Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

Linda Anderson-Carnahan  
Associate Director  
Office of Environmental Review and Assessment  
US EPA Region 10  
Suite 155  
1200 Sixth Ave  
Seattle Wa, 98101  
Office: (206) 553-2601  
Cell: (206) 291-6879

Message

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**From:** Hladick, Christopher [hladick.christopher@epa.gov]  
**Sent:** 6/13/2018 3:54:12 PM  
**To:** Allnutt, David [Allnutt.David@epa.gov]  
**Subject:** Fwd: Top level talking points on Pebble

Anything you want me to forward

Sent from my iPhone

Begin forwarded message:

**From:** "Forsgren, Lee" <[Forsgren.Lee@epa.gov](mailto:Forsgren.Lee@epa.gov)>  
**Date:** June 13, 2018 at 8:49:35 AM PDT  
**To:** "Goodin, John" <[Goodin.John@epa.gov](mailto:Goodin.John@epa.gov)>, "Hough, Palmer" <[Hough.Palmer@epa.gov](mailto:Hough.Palmer@epa.gov)>, "Frazer, Brian" <[Frazer.Brian@epa.gov](mailto:Frazer.Brian@epa.gov)>, "Kaiser, Russell" <[Kaiser.Russell@epa.gov](mailto:Kaiser.Russell@epa.gov)>  
**Cc:** "Hladick, Christopher" <[hladick.christopher@epa.gov](mailto:hladick.christopher@epa.gov)>  
**Subject:** Top level talking points on Pebble

John,

I need 4 or 5 high level talking points for the Administrator on Pebble by 2:00 pm. Generally that Pebble has submitted a permit, we are working with the COE on the scope of the EIS, we are waiting to see what the actual mine might look like as part of the EIS/404 permit process before moving ahead with additional comments and anything else you think relevant.

Lee

**D. Lee Forsgren**

Deputy Assistant Administrator  
Office Of Water  
Environmental Protection Agency  
1200 Pennsylvania Avenue, NW  
Room 3219 WJCE  
Washington, DC 20460  
Phone: 202-564-5700  
[Forsgren.Lee@epa.gov](mailto:Forsgren.Lee@epa.gov)

Message

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**From:** Szerlog, Michael [Szerlog.Michael@epa.gov]  
**Sent:** 4/17/2018 2:14:28 PM  
**To:** Peterson, Erik [Peterson.Erik@epa.gov]  
**CC:** Allnutt, David [Allnutt.David@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]  
**Subject:** RE: BB Funds Recommendation

Erik,

Thanks. I will add this funding need to the list and get back to HQ with our final number.

Thanks

*Michael J. Szerlog*, Acting Director  
Regional Administrator's Division (RAD)  
Office of the Regional Administrator  
Environmental Protection Agency  
1200 Sixth Avenue, Suite 155, Mailstop RAD 202  
Seattle, Washington 98101  
(206) 553-0279  
[szerlog.michael@epa.gov](mailto:szerlog.michael@epa.gov)



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**From:** Peterson, Erik  
**Sent:** Friday, April 06, 2018 11:02 AM  
**To:** Szerlog, Michael <Szerlog.Michael@epa.gov>  
**Cc:** Allnutt, David <Allnutt.David@epa.gov>; McGrath, Patricia <mcgrath.patricia@epa.gov>; Palomaki, Ashley <Palomaki.Ashley@epa.gov>  
**Subject:** BB Funds Recommendation

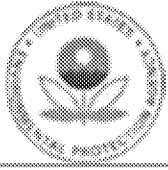
Michael,

David, Ashley, Patty and I - and others involved in Bristol Bay work - have the following recommendation for you to share with HQ regarding your forecasted Bristol Bay funding request.

**Deliberative Process / Ex. 5**

# Deliberative Process / Ex. 5

Thank you for continuing to track this issue and please let David, Patty, Ashley or I know if you have any questions.



**Erik Peterson**, NEPA Reviewer  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-6382

**From:** Allnutt, David  
**Sent:** Friday, April 06, 2018 9:58 AM  
**To:** Peterson, Erik <[Peterson.Erik@epa.gov](mailto:Peterson.Erik@epa.gov)>  
**Cc:** Palomaki, Ashley <[Palomaki.Ashley@epa.gov](mailto:Palomaki.Ashley@epa.gov)>  
**Subject:** FW: FOIA Services Update

Eric – the latest on FOIA service contract. I think our \$10-15k estimate remains valid.



**R. David Allnutt**, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581



**From:** Tyree, James  
**Sent:** Friday, April 06, 2018 9:52 AM  
**To:** Palomaki, Ashley <[Palomaki.Ashley@epa.gov](mailto:Palomaki.Ashley@epa.gov)>; Young, Margo <[Young.Margo@epa.gov](mailto:Young.Margo@epa.gov)>; Kercheval, Stephanie <[Kercheval.Stephanie@epa.gov](mailto:Kercheval.Stephanie@epa.gov)>; Whitmire, Yvette <[whitmire.yvette@epa.gov](mailto:whitmire.yvette@epa.gov)>; Ripley, Denise <[Ripley.Denise@epa.gov](mailto:Ripley.Denise@epa.gov)>; Lindsay, Nancy <[Lindsay.Nancy@epa.gov](mailto:Lindsay.Nancy@epa.gov)>; Stern, Allyn <[Stern.Allyn@epa.gov](mailto:Stern.Allyn@epa.gov)>; Denno, Donald <[Denno.Donald@epa.gov](mailto:Denno.Donald@epa.gov)>  
**Cc:** Clever, Kathleen <[clever.kathleen@epa.gov](mailto:clever.kathleen@epa.gov)>; Beery, Daniel <[beery.daniel@epa.gov](mailto:beery.daniel@epa.gov)>; Allnutt, David <[Allnutt.David@epa.gov](mailto:Allnutt.David@epa.gov)>; Dalrymple, Anne <[Dalrymple.Anne@epa.gov](mailto:Dalrymple.Anne@epa.gov)>  
**Subject:** FOIA Services Update

To all,

Here is the latest on our efforts to obtain longer term contract FOIA support for complex FOIAs with voluminous records:

## Non-Responsive: Unrelated to Bristol Bay/Pebble Mine

**Non-Responsive: Unrelated to Bristol Bay/Pebble Mine**

**Next Steps:**

**Non-Responsive: Unrelated to Bristol Bay/Pebble Mine**

**Non-Responsive: Unrelated to Bristol Bay/Pebble Mine**

Please let me know if you have any questions/comments.

**James T. Tyree**

Information Resource Manager

Information Services Unit, Office of Management Programs

US EPA Region 10

Phone: 206-553-1777

Mobile: 206-245-8602



Message

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**From:** McGrath, Patricia [mcgrath.patricia@epa.gov]  
**Sent:** 4/17/2018 12:59:31 AM  
**To:** Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; LaCroix, Matthew [LaCroix.Matthew@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]  
**Subject:** US Army Corps Pebble EIS website

All-

Just FYI that the Corps continues to add documents to the Pebble EIS website.  
For example, public scoping comments are being loaded (so far there are 487 comments).

<https://pebbleprojecteis.com/publiccomments/list>

The Project Library section includes the Pebble EBD, preliminary JD, the BB Assessment and other information.

<https://pebbleprojecteis.com/documents/library>

Patty

**Patty McGrath | Mining Advisor**

U.S. Environmental Protection Agency, Region 10  
1200 Sixth Avenue, Seattle, WA 98101

M/S: RAD-202

Office: (206) 553-6113

Cell: (206) 743-7068

[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)

Message

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**From:** McGrath, Patricia [mcgrath.patricia@epa.gov]  
**Sent:** 6/12/2018 3:39:43 PM  
**To:** R10-OERA Calendar [R10-OERA\_Calendar@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; LaCroix, Matthew [LaCroix.Matthew@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; LaCroix, Matthew [LaCroix.Matthew@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Combes, Marcia [Combes.Marcia@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Szerlog, Michael [Szerlog.Michael@epa.gov]  
**CC:** Douglas, Mark [douglas.mark@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]  
**Subject:** RE: Bristol Bay Check-in

Meeting agenda:

- Status of scoping letter
- Cooperating agency meeting
- Site travel
- QFR
- PLP response
- Forsgren and Hladick meeting
- Western Caucus response

-----Original Appointment-----

**From:** R10-OERA Calendar

**Sent:** Monday, February 5, 2018 10:13 AM

**To:** Allnutt, David; Anderson-Carnahan, Linda; Palomaki, Ashley; Steiner-Riley, Cara; LaCroix, Matthew; Vaughan, Molly; Hough, Palmer; Mendelman, Krista; Lindsay, Andrea; Skadowski, Suzanne; Nogi, Jill; Peterson, Erik; Nalven, Heidi; Fordham, Tami; R10-OERA Calendar; Allnutt, David; Anderson-Carnahan, Linda; McGrath, Patricia; Palomaki, Ashley; Steiner-Riley, Cara; LaCroix, Matthew; Vaughan, Molly; Hough, Palmer; Combes, Marcia; Mendelman, Krista; Lindsay, Andrea; Skadowski, Suzanne; Nogi, Jill; Peterson, Erik; Nalven, Heidi; Fordham, Tami; Szerlog, Michael

**Cc:** Douglas, Mark; Stern, Allyn; Douglas, Mark; Stern, Allyn

**Subject:** Bristol Bay Check-in

**When:** Tuesday, June 12, 2018 9:00 AM-10:00 AM (UTC-08:00) Pacific Time (US & Canada).

**Where:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center;

**Conference Line/Code / Ex. 6**

**Conference Line/Code / Ex. 6**

Message

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**From:** Douglas, Mark [douglas.mark@epa.gov]  
**Sent:** 11/20/2018 8:09:56 PM  
**To:** Allnutt, David [Allnutt.David@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]  
**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]  
**Subject:** PLP Mailer

David,

As an FYI, I'm sending you a mailer from PLP sent to my home. Others in the office, but not all, have received the same information so it appears to be broad effort to Alaskans. There is even a chance to win a tour of the mine site.

You will receive it via interoffice mail next week.

Thanks,

Mark Douglas  
Aquatic Resources Unit  
Office of Environmental Review & Assessment

U.S. Environmental Protection Agency  
Alaska Operations Office  
222 W. 7th Avenue, Box 19  
Anchorage, AK 99513-7588  
Phone (907) 271-1217

Message

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**From:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Sent:** 6/29/2018 11:16:06 PM  
**To:** R10-OERA Calendar [R10-OERA\_Calendar@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]  
**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]  
**Subject:** Bristol Bay Check-in Agenda 7/3/18

Agenda

- Scoping letter
- Site visits
- Review of preliminary EIS deliverables
- Pruitt 404(c) memo
- Status of responses to Congress
- FOIA



**Erik Peterson**, NEPA Reviewer  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-6382

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Message

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**From:** Hough, Palmer [Hough.Palmer@epa.gov]  
**Sent:** 9/12/2018 8:20:27 PM  
**To:** McGrath, Patricia [mcgrath.patricia@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Bennett, Brittany [bennett.brittany@epa.gov]; Herbst, John [herbst.john@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Ortiz, Michael [Ortiz.Michael@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Wake, Neverley [wake.neverley@epa.gov]; Wehling, Carrie [Wehling.Carrie@epa.gov]; Whitley, Annie [Whitley.Annie@epa.gov]  
**Subject:** FW: BB Meeting Notes  
**Attachments:** BBEDC Meeting Notes 9.12.2018 RLK.DOCX

Folks

Lee F met with some BB folks today (Norm Van Vactor and Robin Samuelsen, BBEDC). The notes are attached. The most noteworthy point is that Lee indicated that the Acting Administrator has recused himself from the decision-making process re Pebble and that action will be overseen by Henry Darwin.

I was not aware of this.

-Palmer

---

**From:** Kaiser, Russell  
**Sent:** Wednesday, September 12, 2018 3:49 PM  
**To:** Hough, Palmer <Hough.Palmer@epa.gov>  
**Cc:** Frazer, Brian <Frazer.Brian@epa.gov>  
**Subject:** BB Meeting Notes

Palmer – attached are my notes from the BB Meeting, and they are similar for the meeting that occurred yesterday. Once we get the list of attendees from Ann, I can make minor tweaks to document that one as well. Let me know if you have any questions. Russ

Russell L. Kaiser  
Chief, Freshwater and Marine Regulatory Branch  
Oceans, Wetlands and Communities Division  
Office of Wetlands, Oceans and Watersheds  
1301 Constitution Ave., N.W.  
Room 7114B West Bldg.  
Washington, DC 20004  
P: 202.566.0963  
C: 202.579.0421

| EPA Deputy AA Meeting with BBEDC   |  |
|--|--|
| <b>Topic: Bristol Bay</b>  |  |
| <b>Meeting Date: Sep 12, 2018</b>  |  |
| <b>Location: EPA HQ (Washington, DC)</b>   |  |
| <b>List of Third Party Attendees (including affiliation):</b> <ul style="list-style-type: none"> <li>• Mathew Paxton, Adams &amp; Reese</li> <li>• Norm Van Vactor, BBEDC</li> <li>• Robin Samuelsen, BBEDC</li> </ul>   |  |
| <b>Did EPA decide which third parties would attend?: No.</b>   |  |
| <b>List of EPA Attendees:</b> <ul style="list-style-type: none"> <li>• Lee Forsgren</li> <li>• Russ Kaiser</li> </ul>  |  |
| <b>Agenda: Bristol Bay EIS Status and Next Steps Forward</b>   |  |
| <b>Did EPA/Third Party Set the Agenda?: Third Party, Mathew Paxton</b>   |  |
| <b>Did EPA/Third Party Run the Meeting: Meeting ran as a conversation</b>  |  |
| <b>Notes from Discussion (including individual advice/feedback provided to Agency):</b> <ul style="list-style-type: none"> <li>• Lee opened and indicated that we are staying on course and there are no actions for EPA at this time related to the (c) action. Will need to determine at a later date when to request public comment on the proposed action and what that will look like. Not there yet.</li> <li>• Lee indicated that we were supporting the Corps in developing the DEIS, when requested by Corps.</li> <li>• Lee noted that the Acting Administrator has recused himself from the decision-making process and that action will be overseen by Henry Darwin.</li> <li>• The group will plan to brief Mr. Darwin on the action in March-April of next year; they will also invite both the Acting Administrator and Mr. Darwin to visit the region so that they can explain the project and identify potential environmental consequences.</li> <li>• Lee also discussed broader AK initiatives, including the mitigation memo and the flexibilities that exist in the rule.</li> </ul> |  |
| <b>Next Steps/Follow-up Discussed: None.</b>   |  |

Message

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**From:** Nogi, Jill [nogi.jill@epa.gov]  
**Sent:** 5/8/2018 4:30:32 PM  
**To:** Allnutt, David [Allnutt.David@epa.gov]  
**Subject:** FW: Please Review - current draft of Pebble Letter

**Importance:** High

Hi David,

This is FYI – Molly called me that she hasn't heard anything from Chris and all the other reviewers have previously provided input. She's been waiting for him to respond and hasn't heard anything, so she asked me to try and see if I can get him to respond to her today. Sharing what I just sent to him... thanks! Jill

---

**From:** Nogi, Jill  
**Sent:** Tuesday, May 08, 2018 9:29 AM  
**To:** Meade, Christopher <Meade.Chris@epa.gov>  
**Cc:** Vaughan, Molly <Vaughan.Molly@epa.gov>  
**Subject:** FW: Please Review - current draft of Pebble Letter  
**Importance:** High

Chris,

I hope that you are doing well. Molly called this morning with her concern that she needs to keep the scoping letter moving through the internal review process as it needs to go to Patty McGrath today. As per her message below, she needs you to review the section related to dredged material management (pages 13-15) and provide any necessary edits, as well as adding a few sentences to the letter regarding upland disposal. The review schedule is tight and I anticipate that you only need to take about 30 minutes today to assist Molly with this. I know that you have been great about sharing your concerns with the team over the phone, so it should be a pretty easy task for you to complete your contributions to the scoping letter today. If Molly hasn't heard from you by 2pm today, I will need to reach out to Justine to see if she can make the time to provide input related to dredged material management. Justine doesn't have the background with this project however – so she would need to hear from you all about your involvement to date – which could take more time than having you edit it and send it back to Molly.

Please make responding to Molly your first priority when you get in to the office today, and take care of this as soon as you are able.

Thank you!

Jill

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**From:** Vaughan, Molly  
**Sent:** Monday, May 07, 2018 5:00 PM  
**To:** Meade, Christopher <Meade.Chris@epa.gov>  
**Cc:** Nogi, Jill <nogi.jill@epa.gov>  
**Subject:** Please Review - current draft of Pebble Letter  
**Importance:** High

Hi Chris,

I have to leave for the day and didn't see any edits from you yet on the Sharepoint site version. So, so make things go more quickly, here is the current version of the document on my OneDrive. I need to send this to Patty ASAP when I come in tomorrow. Please make any edits directly in this document using track changes. As a reminder, the specific section for your review is titled "Marine Environment". It begins in the middle of Page 13 of this version, and ends top of page 15. In particular, please add the appropriate text we've discussed in place of the italicized text on page 14.

If you've already begun edits on another version, no need to switch gears now, just send those to me and I will consolidate in the morning.

Thank you,  
Molly

~~~~~  
Molly Vaughan  
U.S. Environmental Protection Agency Region 10  
Alaska Operations Office  
222 W. 7<sup>th</sup> Avenue #19  
Anchorage, AK 99513-7588

907-271-1215  
[vaughan.molly@epa.gov](mailto:vaughan.molly@epa.gov)  
~~~~~









**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 10**

1200 Sixth Avenue, Suite 155  
Seattle, WA 98101-3140

OFFICE OF  
ENVIRONMENTAL REVIEW  
AND ASSESSMENT

June 29, 2018

Mr. Shane McCoy, Project Manager  
U.S. Army Corps of Engineers  
Regulatory Division  
P.O. Box 6898  
JBER, Alaska 99506-0898

Dear Mr. McCoy:

The U.S. Environmental Protection Agency has reviewed the U.S. Army Corps of Engineers' March 29, 2018, Notice of Intent initiating the scoping process for the proposed Pebble Project Environmental Impact Statement development (EPA Region 10 Project Number 18-0002-COE). We have also reviewed the additional project information available on the Corps website. The EPA is providing comments for your consideration pursuant to the National Environmental Policy Act, Council on Environmental Quality regulations (40 C.F.R. §§ 1500-1508) and Section 309 of the Clean Air Act. The EPA is also supporting the Corps in EIS development as a cooperating agency, due to our special expertise. We appreciate the opportunity to provide early input in the analysis of the Pebble Project.

The Pebble Limited Partnership (PLP) is proposing to develop the Pebble deposit in southwest Alaska, containing copper, gold, and molybdenum. The proposed project includes an open-pit mine, tailings storage facility, a low-grade ore stockpile, an overburden stockpile, a mill facility, a natural gas-fired power plant, and other mine site facilities. The anticipated throughput at the mill facility is 160,000 tons of ore per day, and the proposed mine operating life is 20 years. The proposed project also includes development of a 188-mile natural gas pipeline across Cook Inlet and Lake Iliamna and two compressor stations used to transport natural gas from the Kenai Peninsula to the mine site. The proposed transportation network includes 65 miles of roads, ferry terminals on the north and south shores of Lake Iliamna for use by an ice-breaking ferry, and the Amakdedori Port on Cook Inlet (including dredging and disposal of up to 20 million cubic yards of dredged material).

The scoping comments that follow are provided to inform the Corps of issues the EPA believes are significant and warrant explicit treatment in the EIS, based on current information. Overall, the EPA encourages the development of an EIS that evaluates and compares a full range of reasonable alternatives and comprehensively discusses the reasonably foreseeable direct, indirect, and cumulative impacts of the proposed action.

The EPA has significant concerns regarding the potential impacts of mining activities near the world-class fisheries of the Bristol Bay Watershed.<sup>1</sup> Many of these concerns have been previously documented in the EPA's 2014 Bristol Bay Watershed Assessment, which evaluated the potential impacts of large-scale mining on the region's fish resources, and in the Agency's 2014 Proposed Determination under

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<sup>1</sup> See <https://www.epa.gov/bristolbay> for more information.

Section 404 of the Clean Water Act. This Proposed Determination proposed restrictions on the discharge of dredged or fill material to waters of the U.S. to protect waters that support fishery areas in and near the Pebble deposit area. Because the Watershed Assessment and the Proposed Determination were completed before PLP submitted its permit application to the Corps, these assessments did not consider and were not based on the specific parameters of PLP's pending proposal. The EIS should thoroughly analyze the potential impacts of PLP's proposal to aquatic and other resources, including the anticipated direct impacts of the proposed action, and the reasonably foreseeable indirect and cumulative impacts. We note that the geographic extent of the proposed project infrastructure is not limited to the Bristol Bay watershed, and we recommend that the EIS analyze all areas of impact from the project, including Cook Inlet.

We appreciate the information provided in the Corps' scoping package, including the list of resources to be analyzed in the EIS, and we agree that the suite of issues presented are appropriate to analyze in detail in the EIS. Our enclosed scoping comments provide our recommendations for analysis of key areas that will be the focus of our review of the project, including natural resource impacts, as well as human health and impacts to communities and federally recognized tribes. Our scoping comments also include recommendations related to: risk analysis and hazardous materials management, including geotechnical stability; analytical tools and methodologies, including predictive modeling of impacts to water, air, fish, and other aquatic resources; mitigation and monitoring; and financial assurance. Identification of these key issues and recommendations is based on the EPA's knowledge of the proposed project as well as our experience with mining projects in Alaska and other Region 10 states.

We appreciate the opportunity to participate early in the planning process for this project and are looking forward to working with you as you develop the EIS. Should you have any questions regarding our comments, please contact Patty McGrath, EPA Region 10 Mining Advisor at (206) 553-6113 or [mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read 'R. David Allnutt', with a stylized flourish at the end.

R. David Allnutt  
Director

Enclosure:

1. U.S. Environmental Protection Agency Detailed Scoping Comments for the Pebble Project EIS

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***EPA Region 10 Detailed Scoping Comments for the  
Pebble Project Environmental Impact Statement***

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**GENERAL COMPONENTS OF NEPA ANALYSIS**

**Purpose and Need**

We recommend that the EIS include a clear and concise statement of the underlying purpose and need for the proposed project, consistent with the implementing regulations for NEPA<sup>2</sup> and the Clean Water Act Section 404(b)(1) Guidelines (Guidelines).<sup>3</sup> In presenting the purpose and need, the EIS should reflect not only the Corps' purpose in responding to the permit application, but also the broader public interest and need for this project. An appropriately defined purpose and need statement is of critical importance to setting up the analysis of a range of reasonable and practicable alternatives in the EIS that will meet the requirements of both NEPA and the Guidelines.

**Range of Alternatives**

We recommend that the EIS include a range of reasonable alternatives that meet the stated purpose and need for the project, are responsive to the issues identified during the scoping process and through tribal consultation, and include options for avoiding significant environmental impacts. This will ensure that the NEPA analysis provides agency decision makers and the public with information that defines the issues and identifies a clear basis for the choices made among the range of alternatives, as required by NEPA. The EIS should clearly outline the physical design of current and proposed facilities and alternatives (including ore storage sites, waste rock disposal areas, tailings areas, water storage and conveyance facilities, and supporting infrastructure including the transportation corridor, port site, and pipeline).

The EIS should "rigorously explore and objectively evaluate all reasonable alternatives"<sup>4</sup> even if some of them are outside the capability or the jurisdiction of the agency preparing the EIS for the proposed action.<sup>5</sup> This includes identifying the specific criteria that were used to (1) develop the range of reasonable alternatives, (2) eliminate certain alternatives, and (3) identify the agency preferred alternative, as appropriate. In addition, we recommend the EIS provide a clear discussion of the reasons for the elimination of alternatives that are not evaluated in detail.

While NEPA requires the evaluation of *reasonable* alternatives to the proposed action, the Guidelines require the analysis of *practicable*<sup>6</sup> alternatives in order to identify the least environmentally damaging

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<sup>2</sup> 40 C.F.R. § 1502.13.

<sup>3</sup> Within the context of the Guidelines, practicable alternatives to the proposed discharge of fill or dredged material are identified "in light of overall project purposes," which is also termed "the basic purpose of the proposed activity." 40 C.F.R. § 230.10(a)(2).

<sup>4</sup> 40 C.F.R. § 1502.14(a).

<sup>5</sup> 40 C.F.R. § 1502.14(c).

<sup>6</sup> An alternative is practicable if it is available and capable of being done after taking into consideration cost, existing technology, and logistics in light of overall project purposes. 40 C.F.R. § 230.10(a)(2).

practicable alternative (LEDPA), which is the only alternative that can be permitted.<sup>7</sup> The analysis of alternatives for NEPA can provide the information for evaluation of alternatives under the Guidelines.<sup>8</sup> We recommend that the EIS range of alternatives include the practicable alternatives developed for the Guidelines analysis.

In evaluating the proposed project and alternatives, the analysis should include an evaluation of performance and effectiveness, as well as the planned monitoring to ensure efficacy of proposed design features, environmental protection measures, and mitigation.<sup>9</sup>

Regarding mitigation for purposes of NEPA, we recommend that the alternatives analysis include appropriate mitigation measures not already included in the proposed action or alternatives.<sup>10</sup> The EIS should evaluate reasonable alternatives, including mitigation measures, to reduce or minimize adverse impacts to environmental resources. We recommend that, in conducting such an evaluation, the Corps consider:

- The disturbance footprint;
- Habitat value, cultural significance, and risks in siting project components for the proposed mine site components, as well as the port site, transportation corridor, and pipeline components;
- Source control measures (effective management of waste rock and tailings to prevent acid generation and metal leaching) and containment (liners and covers);
- Measures to reduce contact between mine waste materials and surface water and groundwater (such as surface water diversions and liners and covers as recommended above);
- Impacts of pit dewatering on groundwater and stream flows;
- Treatment to promote compliance with water quality standards;
- The physical stability of structures (e.g., pit walls, ore storage and waste rock facilities, tailings facility) during operations and closure, such as considering dry stack tailings;
- Impacts along the pipeline route and transportation corridor, including to Lake Iliamna;
- Impacts from dredged material disposal;
- Impacts to the marine environment at the Amakdedori Port site;
- Air pollutant emissions; and
- Impacts to traditional and cultural uses and resources, including key subsistence species and sites.

## Indirect Impacts

We recommend that the EIS include consideration of all reasonably foreseeable indirect effects caused by the action but that may occur later in time or farther removed in distance.<sup>11</sup> The indirect effects analysis “may include growth inducing effects and other effects related to induced changes in the pattern of land use, population density or growth rate, and related effects on air and water and other natural

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<sup>7</sup> 40 C.F.R. § 230.10(a)

<sup>8</sup> 40 C.F.R. § 230.10(a)(4).

<sup>9</sup> The term mitigation included in this “Range of Alternatives” section is referring to the general term as it applies to NEPA. Compensatory mitigation for purposes under CWA section 404 cannot be used to reduce environmental impacts in the evaluation of the least environmentally damaging practicable alternatives for the purposes of requirements under Section 40 C.F.R. § 230.10(a). See 1990 Memorandum of Agreement between Army and EPA concerning the determination of mitigation under CWA section 404(b)(1) Guidelines.

<sup>10</sup> 40 C.F.R. § 1502.14(f).

<sup>11</sup> 40 C.F.R. § 1508.8(b).

systems, including ecosystems.”<sup>12</sup> While NEPA does not require agencies to engage in speculation, “[t]he EIS must identify all of the indirect effects that are known, and make a good faith effort to explain the effects that are not known but are reasonably foreseeable.”<sup>13</sup>

We therefore recommend that the EIS evaluate the expansion and continued operation of the currently proposed project to the extent that the Corps considers it to be a reasonably foreseeable indirect effect of the proposed action. The current proposed Pebble Project description includes mining of approximately 1.1 billion tons of mineralized material, while the 2011 Preliminary Assessment Technical Report<sup>14</sup> estimated that the total Pebble mineral resource may be 11.9 billion tons. It may be reasonable to predict that a mine at the Pebble deposit will eventually operate for longer than 20 years and recover and process additional ore based on the size of the deposit, the significant infrastructure that will be developed under the current project description, and statements made by the Pebble Limited Partnership regarding the potential to examine expanding the mine once initial production has begun on the current proposal.<sup>15</sup> Accordingly, we recommend that the EIS consider the potential impacts associated with reasonably foreseeable mine expansion scenarios, including up to 11.9 billion tons.

In addition, we recommend that the EIS consider the extent to which it is reasonably foreseeable that the proposed transportation corridor and natural gas pipeline may be made accessible to the public and may stimulate additional reasonably foreseeable mining projects in the area, and potential environmental effects associated with that induced mining. Although PLP’s current proposal only includes private access to the infrastructure components, public access may be granted in the future. This potential may be different for the different infrastructure elements. For example, if the pipeline is regulated as a common carrier, then public access could be allowed if capacity permits. We recommend that the EIS discuss any reasonably foreseeable future public access to the project’s infrastructure components and analyze any reasonably foreseeable indirect effects of this action.

Construction and operation of the project would result in increased vessel traffic in Cook Inlet and on Lake Iliamna because vessels will bring supplies to the site and transport products off-site. In addition to evaluating the direct effects of the increased transportation, we recommend that, if it is reasonably foreseeable that the ports and ferry landings will become available for public use, then any reasonably foreseeable future use of these components should be assessed in the EIS as indirect or cumulative effects. Should the port and ferry terminals remain open following mining, this infrastructure may result in increased use and vessel traffic beyond what PLP is currently proposing.

Indirect project impacts under NEPA can include secondary effects, which are defined by the Guidelines as “effects on the aquatic ecosystem that are associated with the discharge of dredged or fill materials, but do not result from the actual placement of the dredged or fill material.”<sup>16</sup> The consideration of secondary effects is necessary for the Guidelines analysis, and examples of potential secondary effects are discussed in the section on aquatic resources below.

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<sup>12</sup> *Id.*

<sup>13</sup> Forty Most Asked Questions Concerning CEQ’s NEPA Regulations, Question 18 (CEQ, 1981).

<sup>14</sup> Preliminary Assessment of the Pebble Project, Southwest Alaska, February 2011. Developed by Wardrop, A Tetra Tech Company, for Northern Dynasty Minerals, Ltd.

<sup>15</sup> e.g., see <http://www.alaskajournal.com/2018-01-10/permit-application-reveals-size-scaled-down-pebble-project>. “Collier has acknowledged the company might look to expand after initial production commences but contends growing the project would require additional rounds of environmental reviews and permitting that would be independent from any approvals Pebble already had.”

<sup>16</sup> 40 C.F.R. § 230.11(h).

## Cumulative Impacts

In accordance with NEPA, the cumulative impacts analysis should identify how resources, ecosystems, and communities in the vicinity of the project have already been, or will be affected by, past, present, or reasonably foreseeable future activities in the project area, “regardless of what agency (federal or non-federal) or person undertakes such other actions.”<sup>17</sup>

The Guidelines also fundamentally require consideration of reasonably foreseeable cumulative effects in determining whether a project complies with the significant degradation prohibition and to ensure that discharges will not have an unacceptable adverse impact either individually or in combination with known and/or probable impacts of other activities affecting the ecosystems of concern.<sup>18</sup> Cumulative effects are “the changes in an aquatic ecosystem that are attributable to the collective effect of a number of individual discharges of dredged or fill material,” which individually may be minor, but cumulatively may result in a “major impairment of the water resources and interfere with the productivity and water quality of existing aquatic ecosystems.”<sup>19</sup>

For the cumulative impacts assessment, we recommend that the EIS delineate appropriate geographic boundaries, including natural ecological boundaries whenever possible, as well as consider an appropriate time period for the project’s effects. We recommend that resources be characterized in terms of their response to change and capacity to withstand stresses. Trends data should be used to establish a baseline for the affected resources, to evaluate the significance of any historical degradation (e.g., due to exploration activities), and to predict the environmental effects of the project components.

Past, present, and reasonably foreseeable future activities that should be considered in the cumulative impact assessment will vary across the geographic scope of the various mine-site and infrastructure components. Please refer to CEQ’s “Considering Cumulative Effects Under the National Environmental Policy Act”<sup>20</sup> and the EPA’s “Consideration of Cumulative Impacts in EPA Review of NEPA Documents”<sup>21</sup> for assistance with identifying appropriate boundaries and identifying appropriate past, present, and reasonably foreseeable future projects to include in the analysis.

In particular, we recommend that the cumulative effects analysis consider, but not be limited to, the following activities:

- Past and current exploration activities conducted by PLP and others at the Pebble site;
- Current exploration activities occurring in the Bristol Bay watershed region;
- Reasonably foreseeable expansion and continued operation of the currently proposed project (while this is an indirect effect under NEPA, as discussed above, it is a cumulative effect under the Guidelines);
- Reasonably foreseeable future use of project infrastructure (road, port, pipeline); and,
- Reasonably foreseeable development of additional mining projects as a result of increased exploration activity in the region. Even if those activities are not determined to be indirect effects of the proposed action (as discussed above), they are still reasonably foreseeable.

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<sup>17</sup> 40 C.F.R. § 1508.7.

<sup>18</sup> 40 C.F.R. § 230.10(c).

<sup>19</sup> 40 C.F.R. § 230.11(g).

<sup>20</sup> <http://ceq.hss.doe.gov/nepa/ccenepa/ccenepa.htm>.

<sup>21</sup> <http://www.epa.gov/compliance/resources/policies/nepa/cumulative.pdf>.



## **ENVIRONMENTAL RESOURCE IMPACTS**

### **Aquatic Resources, Including Wetlands, Streams, and Fish**

#### **Evaluating Compliance with the Clean Water Act Section 404(b)(1) Guidelines**

The Corps' potential CWA Section 404 permitting action is triggering preparation of the EIS. We recommend that the Corps' permitting regulations and the Guidelines therefore provide the context for identifying relevant issues and evaluating alternatives in the EIS.

The Guidelines are the substantive environmental criteria for the evaluation of proposed discharges of dredged or fill material, and applicants must demonstrate compliance with the Guidelines.<sup>22</sup> The EIS is a significant component of the administrative record for the District's permit decision, which can and should provide sufficient information to address compliance with the Guidelines and the Corps' public interest review.<sup>23</sup> Although it is not mandatory, we support the Corps' decision to include of the public interest review factors into the list of issues to be considered in the EIS. This will enable the expected benefits to be balanced against reasonably foreseeable detriments, and all relevant public interest factors to be weighed.

We recommend that the organization of the EIS facilitate the evaluation of the proposed project's compliance with the Guidelines. Issues relevant to compliance with the Guidelines should be addressed explicitly in the EIS where possible. Alternatively, a stand-alone Section 404(b)(1) analysis could be included as its own section of, or appendix to, the EIS. As mentioned above, we recommend that the range of alternatives evaluated in the EIS be sufficient to identify the LEDPA. In addition, we recommend that the final EIS identify which alternative is the LEDPA.

The Guidelines prohibit, for example, the authorization of a proposed discharge that would cause or contribute to the violation of an applicable water quality or toxic effluent standard, jeopardize a listed threatened or endangered species, or impact a marine sanctuary.<sup>24</sup> We recommend that these criteria be used to evaluate and compare alternatives.

The Guidelines also prohibit the authorization of a proposed discharge which will cause or contribute to significant degradation of the aquatic ecosystem.<sup>25</sup> Findings of significant degradation must be based upon specific factual determinations, evaluations, and tests identified in the Guidelines. These include the evaluation of the direct, secondary, and cumulative effects of the proposed discharge and alternatives on specific resources including fish, wildlife, and special aquatic sites. The significant degradation findings must also evaluate the effects to resource characteristics including aquatic ecosystem diversity, productivity, and stability. Evaluating the potential for significant degradation also requires the consideration of effects to human uses or values, including recreational, aesthetic, and economic values. With regard to fisheries, the Guidelines require, for example, an evaluation of effects to all forms and life stages of aquatic organisms in the food web, including fish and the plants and animals on which they feed and depend upon for their needs.<sup>26</sup> The Guidelines also require an evaluation of effects to

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<sup>22</sup> 40 C.F.R. § 230.12(a)(3)(iv).

<sup>23</sup> See 33 C.F.R. § 320.4.

<sup>24</sup> 40 C.F.R. § 230.10(b).

<sup>25</sup> 40 C.F.R. § 230.10(c).

<sup>26</sup> 40 C.F.R. § 230.31.

recreational and commercial fisheries, which includes harvestable fish, crustaceans, shellfish, and other aquatic organisms used by man.<sup>27</sup> The Corps has proposed including a number of these evaluations in the EIS. We recommend that as many of the specific factual determinations, evaluations, and tests required by the Guidelines as possible be included in the EIS, and be used to evaluate and compare alternatives.

The Guidelines also prohibit any proposed discharge that does not include all appropriate and practicable measures to minimize potential harm to the aquatic ecosystem.<sup>28</sup> Subpart H of the Guidelines identifies numerous possible steps to minimize impacts, including reducing the footprint of the project, using co-location of facilities whenever possible, implementation of best management practices to reduce environmental impacts, configuring the project footprint to reduce or eliminate impacts to higher functioning aquatic resources and other appropriate and practicable measures. Also, as previously discussed, we recommend that the EIS include appropriate minimization measures both as part of the action alternatives and relative to the affected environment. The discussion of minimization measures should include assessment of their likely effectiveness.

#### Compensatory Mitigation

For unavoidable impacts to wetlands, streams, and other aquatic resources, the Guidelines require appropriate and practicable compensatory mitigation to offset unavoidable environmental impacts associated with discharges permitted under CWA Section 404. We recommend that the EIS consider potential mechanisms to offset likely unavoidable aquatic resource impacts. We also recommend that the EIS include the applicant's proposed compensatory mitigation plan. Compensatory mitigation requirements, including the components of a compensatory mitigation plan, are described in Subpart J of the Guidelines. Pursuant to the Guidelines, the level of detail in the compensatory mitigation plan should be commensurate with the scale and scope of the impacts.

Compensatory mitigation may be provided through purchase of credits from an approved mitigation bank, purchase of credits from an approved in-lieu fee mitigation program, and/or completion of a permittee-responsible compensatory mitigation project(s). Final compensatory mitigation requirements must be commensurate with the amount and type of impact that is associated with a particular Section 404 permit.<sup>29</sup> Compensatory mitigation required by the Guidelines is separate from, and may be in addition to, proposed project impact mitigation under NEPA.

#### Characterizing the Affected Environment

We recommend that the EIS describe aquatic habitats in the affected environment by resource type using the data sources and classification approaches that provide the greatest resolution possible. For example, if wetlands are mapped using a Cowardin classification, that mapping should be to the smallest identifiable map unit. Likewise, streams should be classified and mapped accordingly. The baseline information for aquatic resources should include their functional condition and integrity. We also recommend that the EIS evaluate the characteristics of the potentially affected aquatic resources, how those characteristics provide fish habitat, and how such habitat could be adversely impacted by the proposed project. Wetlands and streams perform different functions at different rates, and capturing this information is critical for evaluating the potential environmental impacts of the proposed action, alternatives, and reasonably foreseeable actions (exploration and mining) on these resources.

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<sup>27</sup> 40 C.F.R. § 230.51.

<sup>28</sup> 40 C.F.R. § 230.10(d).

<sup>29</sup> 40 C.F.R. § 230.93(a)(1).

Characterizing the distribution of resident and anadromous fish in potentially affected streams and other aquatic resources is also important, and we recommend the use of data sources such as the Anadromous Waters Catalog<sup>30</sup> and the Alaska Freshwater Fish Inventory<sup>31</sup> to help with this characterization.

#### Aquatic Resource Impacts Analysis

We recommend that the areal extent (i.e., acreage) of impacts to aquatic resources be quantified in the EIS for both direct and secondary effects. The acreage values for the direct and secondary impact footprints should include the acreage for streams as well as for wetlands, ponds, lakes, mudflats, and other waters. In other words, reported acreage losses should represent the total loss of jurisdictional waters. For streams, the loss of channel length should also be quantified by linear feet and/or miles. Channel length values are a more intuitive metric for some, and facilitate different types of analyses than the acreage values. In addition to the areal or linear extent, impacts to aquatic resources should also be quantified by the expected change in the function these resources perform, including fishery support functions, or change in the condition of the resource.

Direct effects are impacts on aquatic resources within the footprint of the discharge of dredged or fill material. Direct effects at the mine site would include stream and other aquatic resource losses within the footprints of the tailings storage facility, the ore and overburden storage sites, the mine pit, and other mine site facilities described in the permit application. Construction of the transportation and pipeline corridors and port facility will likely involve such discharges as well.

Secondary effects, as defined by the Guidelines, are associated with the discharge of dredged or fill material, but do not result from actual placement of this material. These effects are also considered indirect impacts under NEPA. Examples of secondary effects that should be evaluated in the EIS include the following:

- Elimination of streams and wetlands due to drowning by the tailings impoundment and other mine components;
- Dewatering of streams and other aquatic resources due to pumping of groundwater during open pit mining and filling during closure;
- Fragmentation of aquatic resources due to the placement of the mine pit, ore storage sites, tailings storage facility, and other mine components;
- Degradation of downstream fish habitat due to streamflow alterations resulting from water capture, withdrawal, storage, treatment, or release at the mine site;
- Degradation of downstream fish habitat due to water quality impacts associated with mine construction and operation;
- Degradation of downstream fish habitat due to the loss of important inputs such as nutrients and groundwater from upstream sources;
- Degradation of aquatic resources due to dust deposition from mining and transportation activities.

The evaluation of the proposed project's impacts and alternatives should fully consider the physical, chemical, and biological effects of each of the direct and secondary effects, and should consider incremental changes from these impacts along each stream segment downstream of the impact site.

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<sup>30</sup> See <https://www.adfg.alaska.gov/sf/SARR/AWC/>.

<sup>31</sup> See <http://www.adfg.alaska.gov/index.cfm?adfg=ffinventory.main>.

Considering the value of the region's commercial, subsistence, and recreational fishery resources, we recommend that the EIS focus on quantifying direct, indirect, and cumulative impacts on resident and anadromous fish and their habitat resulting from losses of streams with documented fish occurrences; losses of headwater source areas of these streams; losses of wetlands, lakes, and ponds; and streamflow alterations. We appreciate that the Corps has made the EPA's 2014 Bristol Bay Watershed Assessment available on the Pebble Project website, and we also recommend that this document be referenced in preparing the EIS.<sup>32</sup>

The losses of stream reaches and adjacent wetlands from dewatering, as well as changes to downstream reaches and adjacent wetlands, may result in physical, chemical, and biological changes which would impact fishery habitat and habitat support. We recommend that the EIS model and consider these impacts compared to baseline conditions, including but not limited to:

- Evaluate changes in water volume in the stream areas of impact, as well as changes in the downstream reaches of the watershed resulting from losses of upstream contributions of water. We recommend that the analysis address seasonal changes to the different stream segment hydrographs, including changes to seasonal temperatures, dissolved oxygen levels, sediment transport capabilities, and any associated changes to sediment grain sizes in the different stream segments;
- Evaluate flow changes in the impacted stream reaches, both from pit dewatering as well as any proposed in-stream discharge points, to assess any potential changes to stream profile, form, and pattern, and to identify any areas of accretion and/or scouring which may reasonably be anticipated. We also recommend that areas of stream incision as a result of flow changes be identified, as well as losses of connectivity to floodplains and riparian wetlands currently connected to the downstream reaches;
- Identify potential changes to nutrient levels, turbidity, and dissolved oxygen, particularly with respect to seasonal patterns in the downstream reaches. We further recommend that both the direct losses of both autochthonous and allochthonous inputs from upstream reaches lost and/or disconnected from wetland and other riparian habitats, as well as the incremental reductions in those inputs in downstream segments throughout the stream reaches and their effects on system-wide primary, secondary, and tertiary production, be evaluated. These analyses should consider the direct changes to downstream habitats as well as changes to fisheries support in the different stream reaches;
- Evaluate decreases in anticipated invertebrate transport and production in downstream segments and those effects on fish production; and
- Evaluate the effects of disconnecting any off-channel habitat both near the areas of direct impact and throughout the downstream reaches, both for losses of allochthonous inputs and also for potential losses of nursery habitat.

We recommend that the direct, indirect, and cumulative impacts of any of these potential physical, chemical, and biological alterations be examined for how they may result in the loss and/or degradation of fish habitat, including alterations with respect to spawning, overwintering, nursery, and migration. Habitat losses that may result from freeze-through or seasonal warming of fish production areas should also be evaluated.

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<sup>32</sup> See <https://www.epa.gov/bristolbay/bristol-bay-assessment-final-report-2014>.

## Water Quality and Quantity

### Evaluating Impacts to Surface Water and Groundwater Quality and Quantity

Water quality is one of the EPA's principal concerns at mine facilities due to the potential for acid-generating and metal-leaching waste materials (ore, waste rock, tailings, pit walls) that are exposed to the environment and require management over long periods of time. In addition, road construction and operation have the potential to contribute a significant quantity of sediment to streams. We recommend that the EIS characterize baseline surface water and groundwater quality, quantity, and interactions, and evaluate the impacts of all aspects of the proposed operations and alternatives (including pit dewatering and backfilling, tailings management and disposal, water management, and port-site and transportation aspects) on these hydrologic components and describe mitigation for adverse impacts.

Given the potential impacts of the proposed Pebble Project, the EPA recommends that the Corps specifically include in the water resources analysis for the EIS (see also our recommendations for Analysis Tools and Methodologies):

- Characterization of existing groundwater, surface water, springs, and wetland resources within the area of both the project and all potential alternatives, including groundwater levels, flow direction and gradients, and chemistry;
- Development of a hydrogeologic conceptual site model, including:
  - Maps of groundwater, surface water, springs, and wetland resources in the area to be developed or affected;
  - Baseline data on the extent and quality of groundwater, surface water, springs and wetlands;
  - Information on the quantity and location of all aquifers, including Underground Sources of Drinking Water, recharge zones and source water protection areas;
  - Identification of any CWA § 303(d) listed waterbodies and any existing restoration efforts for these waters;
  - Identification and description of all wetlands and surface waters that could be affected by the project and alternatives; where applicable, acreages, channel lengths, habitat types, values and functions of these waters should be identified;
  - Identification and description of hydrologic pathways (e.g., the connectivity of springs or groundwater to surface waters; the connectivity of all streams to each other and to wetlands); and
  - A detailed water balance for the proposed action and each alternative.
- Assessment of which waters may be impacted, the sources and nature of potential impacts (both quality and quantity), specific pollutants likely to impact those waters and a comparison to applicable environmental standards (e.g., surface water and drinking water quality standards);
- Consideration of downstream impacts and potential for changes in metal speciation and bioavailability (in particular, the impacts of copper, which can have adverse effects on salmon at very low concentrations);
- Evaluation of surface water and groundwater use, including maps and source identification of agricultural, domestic, and public water supply wells or intakes; and
- Consideration of effects of seasonality on water quantity and quality impact assessment, including predictions for all phases of the project (construction, operations, and closure).

### Anti-degradation

The anti-degradation provisions of the CWA apply to those waterbodies where water quality standards are currently being met. In certain high-quality waters, the anti-degradation provisions prohibit

degrading water quality unless it is determined that allowing lower water quality is necessary to accommodate important economic or social development in the area in which the waters are located.<sup>33</sup> We recommend that the EIS discuss whether and how the CWA anti-degradation requirements could be met.

#### Water Management and Treatment

We recommend that the EIS describe the plans for water management, treatment, and discharge during all phases of the project (construction, operations, and closure), including plans for long-term water treatment. The EIS should evaluate and disclose the adequacy, reliability, effectiveness, and operational uncertainty associated with proposed operation and closure (long-term) water management and treatment techniques, taking into account seasonality and potential changes associated with future climate scenarios. We also recommend that the analysis characterize chemical compositions and quantities of process waters, mine drainage, storm water, and treated and untreated effluent. This information should be supported by the results of treatability testing. Assumptions used in the analysis should be disclosed and be reasonably conservative. If long-term water treatment is needed, we recommend that the EIS include modeling of predicted stream concentrations of contaminants of concern, both with and without treatment, to evaluate the potential impacts to water quality if the treatment system is not working properly.

The EIS should also identify the Alaska Pollutant Discharge Elimination System (APDES) discharge locations, identify applicable water quality standards, and analyze the likelihood and ability of all discharges to meet applicable standards and the direct, indirect, and cumulative impacts of such discharges to the receiving waters. We recommend that any applicable water quality variance requests, site-specific criteria proposals, and/or any other planned or potential requests for water quality standard revisions also be disclosed in the EIS.

#### Sediment Management and Stormwater Runoff

Since the project has the potential to cause or contribute to erosion of soils and subsequent sediment loading to nearby surface waters, we recommend that the EIS evaluate construction design and operation practices that will be used to minimize erosion and control stormwater runoff from the mine site, port sites, transportation corridor, and pipeline route. We recommend that the EIS discuss specific mitigation measures that may be necessary or beneficial in preventing and minimizing adverse impacts to water quality and disclose the effectiveness of such measures. We suggest that the Corps consider the Best Management Practices identified by the EPA for mining facilities<sup>34</sup> and specify those that would be suitable and likely implemented at the Pebble Project. We also recommend that the EIS document the project's consistency with applicable APDES stormwater permitting requirements.

#### Hydrostatic Test Water

Hydrostatic testing will likely be utilized to verify pipeline integrity. We recommend that the EIS identify and describe the location of the water sources required for hydrostatic testing, in terms of surface area, depth, volume, withdrawal rate, and project requirements. For each water source, we recommend that the EIS discuss the presence of any anadromous and/or resident fish species, including discussion of any direct and cumulative impacts to fisheries resources. In addition, we recommend that locations and methods of discharges to land and/or surface waters be specified in the EIS. Emphasis should be placed on minimizing inter-basin transfers of water to the maximum extent practicable, to

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<sup>33</sup> 40 C.F.R. § 131.12.

<sup>34</sup> [https://www3.epa.gov/npdes/pubs/sector\\_g\\_metalmining.pdf](https://www3.epa.gov/npdes/pubs/sector_g_metalmining.pdf).

minimize the risk of mobilizing invasive species. We recommend that the EIS describe the mitigation measures and control devices that would be implemented to minimize environmental impacts.

## **Marine Environment and Freshwater Lakes**

### **Port Construction and Dredging Impacts**

According to the Permit Application Appendix D – Project Description, the Amakdedori Port will require dredging of a channel and turning basin for shipping access to berths. According to the application, annual maintenance dredging will be necessary throughout the life of the port facility. Dredging activities potentially affect habitats and key ecological functions that support recruitment and sustainability of estuarine and marine organisms. We recommend that the EIS:

- Characterize the marine benthic environment and organisms, sediment composition and grain size, etc.;
- Identify any biologically important areas, such as migratory routes, benthic communities, and subsistence areas;
- Evaluate marine dredging, dewatering, transloading (from water to land), placement methods and options (summer and winter), and disposal sites (offshore, nearshore, upland, and open-water), as well as beneficial uses of the dredged material;
- Include and evaluate a sampling and analysis plan, as well as a marine dredging and disposal plan;
- Evaluate the following potential impacts of dredging activities on species and their habitats:
  - Substrate removal and any resulting habitat and species removal (entrainment);
  - Potential changes to estuarine bathymetry, fluvial and tidal energy, and substrate roughness, and any attendant impacts to salinity structure and estuarine circulation;
  - Potential changes to sediment transport processes, including effects on adjacent shorelines;
  - Alteration of sediment composition in and around the dredging site (including changes to the nature and diversity of benthic communities);
  - Local resuspension of sediments and any turbidity increases;
  - Spread of sediments (and any associated contaminants) into the area surrounding the dredging site;
  - Release of sediment-associated nutrients, potential increases in eutrophication and resulting decreases in dissolved oxygen concentrations;
  - Decreased primary production due to reduced transparency of the water column and/or smothering, particularly at in-water disposal sites; and
  - Enhanced bioavailability and ecotoxicological risk of background contaminants and/or chemical or biochemical changes of contaminants;
- Consider implementation of effective mitigation measures to ensure that marine resources and habitats are adequately protected; and
- Incorporate a monitoring plan for marine protected resources and associated habitats to ensure effectiveness of mitigation measures.

Because of the magnitude of the proposal, dredging and disposal operations will need to be carefully planned and scheduled to avoid and minimize impacts to sensitive marine mammals, fish, shellfish, and their habitat at critical spawning and migration periods.

### **Dredged Material Disposal**

According to the Permit Application Appendix D, dredged material will be used to construct the jetty, causeway, and/or the main terminal patio area, if suitable. Excess dredged material will be stockpiled in



an upland location adjacent to the port facilities. The EPA recommends an on-the-ground wetland delineation at the proposed dredged material disposal site to verify whether there are any jurisdictional waters of the United States at this location.

The proposed discharge of dredged material effluent from the confined disposal facility into Kamishak Bay is subject to regulation under Section 404 of the CWA. Thus, the EIS should include sufficient information to support making the required determinations and findings under the Guidelines. For example, Subpart G of the Guidelines includes general evaluation procedures and specific testing procedures to reach the determinations required by 40 C.F.R. § 230.11. The Inland Testing Manual<sup>35</sup> also provides detailed technical guidance on how to evaluate and test dredged material consistent with the Guidelines. In particular, the EPA recommends using the ITM Appendix B, "Guidance for Evaluation of Effluent Discharges from Confined Disposal Facilities."

To support disposal decisions, we recommend that the EIS provide an inventory of the physical and chemical characteristics of the dredged material and an assessment of disposal alternatives. We recommend that the range of dredged material management alternatives include: no action; the proposed action; beneficial uses such as beach nourishment or construction material; a disposal site in internal waters, landward of the Kamishak Bay closing line (regulated under the CWA); and an ocean disposal site seaward of the Kamishak Bay closing line (regulated under the Marine Protection, Research and Sanctuaries Act).

#### Potential for Ocean Disposal of Dredged Material

Under Section 102 of the MPRSA, the EPA is responsible for designating and managing ocean dumping sites for all materials, including dredged material. The EPA designates ocean disposal sites through rulemaking and sites are published at 40 C.F.R. § 228.15. The EPA bases the designation of an ocean disposal site on environmental studies of a proposed site, studies of regions adjacent to the site, and historical knowledge of the impact of disposal on areas similar to the site in physical, chemical, and biological characteristics. All studies for the evaluation and potential selection of dredged material disposal sites should be conducted in accordance with the criteria for the selection of disposal sites for ocean dumping published in 40 C.F.R. §§ 228.5 and 228.6. The minimum requirements for baseline assessment surveys are found in 40 C.F.R. § 228.13.

The evaluation process includes conducting oceanographic studies to establish the environmental conditions at all alternative locations being considered as potential sites, as well as the area or region encompassing the alternative sites. Results from oceanographic studies and other sources are used to model likely dispersion and deposition of material disposed at the alternative sites and evaluate potential impacts. If there are no practicable alternatives to ocean dumping that will have a less adverse impact on the environment, this information is used to select the best ocean site proposed for designation.

If ocean disposal is to be considered as an alternative, we encourage the Corps to engage early and actively with the EPA to ensure that site selection activities are consistent with the MPRSA and the ocean disposal criteria. The EIS must be adequate for the EPA to ensure that use of the site selected for designation will not likely cause unreasonable degradation to the surrounding marine environment. In addition, only dredged material that is authorized for disposal under the MPRSA and 40 C.F.R. Part 227 may be disposed in an EPA-designated ocean dredged material disposal site.

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<sup>35</sup> See <https://www.epa.gov/cwa-404/inland-testing-manual>.



### Impacts of Vessel Traffic

Marine traffic, including barges and other vessels associated with construction and operation of the proposed project, may also result in impacts to the marine environment. For example, vessel traffic may result in potential impacts to marine mammals, including threatened and/or endangered species, and their migration patterns and routes; subsistence, commercial, and recreational fisheries; and other vessel use. We recommend the EIS describe the vessel traffic schedule in Cook Inlet; patterns and marine transportation routes; subsistence, commercial, and recreational fishery resources; and the migration period, patterns, and routes of potentially affected marine mammals, including Cook Inlet Belugas. The direct, indirect and cumulative impacts from vessel traffic on marine mammals, threatened and endangered species, critical habitats, and fishery resources should be analyzed in the EIS, and the EIS should discuss the mitigation measures that would be implemented to minimize such impacts.

Use of the proposed ice-breaking ferry on Lake Iliamna may result in similar impacts to the freshwater lake environment, including the potential for wake impacts to the shoreline. We recommend the EIS analyze the direct, indirect, and cumulative impacts of the year-round use of the lake proposed by the applicant on threatened and/or endangered species, fishery resources, and other lake user groups, and discuss mitigation measures to minimize impacts.

### **Air Quality**

The EPA recommends that the EIS evaluate how the construction and operation of the proposed project and alternatives could affect air quality and what measures may be needed to mitigate potentially significant impacts. Such an evaluation is necessary to ensure compliance with state and federal air quality regulations, and to disclose the potential impacts from temporary or cumulative degradation of air quality. To address potential air quality impacts, the EIS should consider whether the direct, indirect, or cumulative impacts of project-related air emissions would result in any adverse impact on air quality or air quality-related values.

Potential air pollutant concerns for the proposed project include:

- Operation of heavy machinery and equipment, including marine vessels, during construction and operations that result in the emission of fossil fuel combustion exhausts. Such exhausts will include oxides of nitrogen, oxides of sulfur, carbon monoxide, and particulates. The significance of the contribution of project emissions to the formation of secondary particulate matter (PM<sub>2.5</sub>) and ozone should also be evaluated;
- Fugitive dust emissions may be generated from construction and operation of the mine, ancillary facilities, and supporting infrastructure. In addition to human health effects, dust blown from the roadway can settle onto wetlands, vegetation, or waterbodies, impairing their health as well; and
- Hazardous air pollutants may result from fuel combustion and ore processing. The *National Air Toxics Assessment* asserts that numerous human epidemiology studies show increased lung cancer rates associated with diesel exhaust and significant potential for non-cancer health effects (see <http://www.epa.gov/ttn/atw/nata>). Also, the Control of Emissions of Hazardous Air Pollutants from Mobile Sources Final Rule (66 Fed. Reg. 17,230, March 29, 2001) lists 21 compounds emitted from motor vehicles that are known or suspected to cause cancer or other serious health effects. The EPA recommends the EIS disclose whether hazardous air pollutant emissions would result from project construction and operations, discuss the cancer and non-cancer health effects associated with air toxics and diesel particulate matter, and identify sensitive receptor populations and individuals likely to be exposed to these emissions.

We recommend the following steps for the EIS air quality analysis:

- Characterize the existing conditions to set the context for evaluating project impacts, including:
  - Regional climate and meteorology,
  - Air quality and air quality related values (e.g., visibility),
  - Identification of sensitive receptors in the vicinity;
- Review air quality regulations and any air permitting requirements that apply to the air pollutant sources associated with the project;
- Provide a comprehensive emissions inventory of criteria pollutants (in tons per year), greenhouse gas emissions (in metric tons CO<sub>2</sub> equivalents per year), and significant HAP emissions for all project components (mine site, transportation corridor, port, and pipeline) and project phases; and
- If projected emissions are significant, conduct near-field and far-field air quality modeling to assess project-related air quality and visibility impacts. Also, see our recommendations related to Predictive Modeling, later in this document.

We recommend that the Corps evaluate and incorporate best management practices and mitigation measures into the EIS to reduce emissions of criteria pollutants and HAPs, which also have co-benefits of reducing GHGs. We recommend that the EIS include a comprehensive fugitive dust control plan as well as a construction air pollutant emissions control plan to address reduction of engine emissions.

These recommendations are separate and distinct from, and are not intended as a substitute for compliance with, any additional obligations of the Corps and the project proponent to comply with the federal Clean Air Act and any applicable state or tribal air pollution laws, which may require, among other things, obtaining pre-construction permits and operating permits, compliance with new source performance standards and/or national emission standards for hazardous air pollutants, as well as any applicable state implementation plan (SIP) requirements, including, as applicable to the Corps, the requirements under Section 176 of the Clean Air Act regarding conformity of federal activities to implementation plans approved or promulgated under section 110 of the Clean Air Act.

### **Climate Adaptation**

The EPA recommends that the EIS include a discussion of reasonably foreseeable effects that changes in the climate may have on the proposed project and the project area, including its long term infrastructure. This could help inform the development of measures to improve the resilience of the proposed project. If projected changes could notably exacerbate the environmental impacts of the project, the EPA recommends these impacts also be considered as part of the NEPA analysis.

### **Fish and Wildlife, including Endangered Species and Essential Fish Habitat**

The EPA recommends that the EIS evaluate impacts to fish and wildlife from the proposed project and alternatives. The aquatic resources section above also provides recommendations related to fisheries.

Special consideration should be given to listed and proposed species under the Endangered Species Act and Essential Fish Habitat under the Magnuson Stevens Fishery Conservation and Management Act. NEPA regulations require that, to the fullest extent possible, the EIS be prepared concurrently with

environmental analyses required by the ESA and other environmental laws.<sup>36</sup> Magnuson Stevens Act and ESA implementing regulations also encourage coordination with other environmental reviews.<sup>37, 38</sup>

We recommend that the EIS discuss the species listed and proposed as threatened or endangered under the ESA and the essential fish habitat within the project area (including the pipeline, roads, and port site) and the potentially impacted area surrounding the project. The EIS should describe impacts to ESA species and EFH and discuss the activities proposed to avoid, minimize, mitigate, and monitor listed and proposed species and EFH. We understand that the Corps will develop a biological assessment to evaluate impacts to listed and proposed endangered species and EFH, and recommend that it be included with the draft EIS. We also recommend that the federal action agencies work together to ensure that a single biological assessment is developed that meets all agencies' needs.

### **National Historic Preservation Act**

Section 106 of the National Historic Preservation Act of 1966 requires federal agencies to consider the effects of their actions on historic properties, including those of traditional religious and cultural importance, following regulations in 36 C.F.R. Part 800. The NHPA requires a federal agency, upon determining that activities under its control could affect historic properties, to consult with the appropriate State Historic Preservation Officer /Tribal Historic Preservation Officer. We support the Corps' early engagement with the Advisory Council on Historic Preservation, and we recommend that the EIS discuss any potential impacts to historic properties, including any tribal, cultural, or other treaty resources that are historic properties or traditional cultural properties. In addition, the EIS should identify alternatives and mitigation to avoid significant impacts. Recommendations related to traditional uses and resources that are not historic properties are discussed further below.

### **Invasive Species**

We know that ballast water from barges or vessels can be a major source of non-native species into marine ecosystems. Non-native species can adversely impact the economy and the environment and cause harm to human health. Impacts may include reduction of biodiversity of species inhabiting coastal waters due to competition between non-native and native species for food and resources. We recommend that the EIS discuss potential impacts from non-native invasive species associated with ballast water in vessels that will be utilizing the Amakdedori Port associated with this project and identify mitigation measures to minimize adverse impacts to the marine environment and human health.

## **SAFETY, RISK ANALYSIS, AND HAZARDOUS MATERIALS MANAGEMENT**

### **Accidents and Failures**

An array of spills, accidents, and failures can occur at mining sites. We recommend that the EIS describe the control measures that will be in place to prevent these events from occurring during construction, operations, and closure. To identify these events, we recommend that the Corps evaluate the proposed design and management of the tailings facility, dams, and other structures and evaluate PLP's waste and water management and reclamation plans to determine the project-specific likelihood of different types of accidents and failures. Designs and management plans for the pipeline and transportation components

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<sup>36</sup> 40 C.F.R. § 1502.25.

<sup>37</sup> 50 C.F.R. § 600.92 (c), (f).

<sup>38</sup> 50 C.F.R. § 402.06.

(road, ports, shipping) should also be evaluated to determine the probability of accidents and failures. We recommend that the results of these evaluations be documented in the EIS. For those events that are determined to be of low probability but high consequence, we recommend that the EIS evaluate the potential effects of such events on aquatic ecosystems, particularly fishery resources, and other resources. The EIS should also discuss mitigation measures that could minimize the risk or damages of such events.

### **Physical Stability of Structures**

The EIS should assess the likelihood of earthquakes in the region and describe the geotechnical stability of the tailings and waste storage facilities and open pit walls during operations and closure. We recommend including a description of how these facilities are designed and how they would be operated, closed, and monitored to ensure stability. In addition, we recommend that a risk assessment, such as a Failure Modes Effects Analysis, (FMEA) be conducted on each of the tailings dams with the results summarized in the EIS. An FMEA considers potential failure modes and identifies the relative likelihood and consequences of the failure modes, which are key considerations for impact assessment. We recommend that the EIS incorporate mitigation or alternatives to improve stability should the FMEA identify failure modes that are anything other than a tolerable risk.

For the tailings impoundment in particular, we recommend that the Corps require a demonstration that the structure complies with state dam safety criteria and has been designed by qualified persons. In addition, we recommend that the Corps require that the dam be independently reviewed (and modified if indicated by the review)<sup>39</sup>. Given the proposed size of the dams associated with the Pebble project and value of the downstream resources, we believe that an independent review of the dam structure is appropriate. We recommend that the results of the independent review be documented in the EIS in order to support the assessment of geotechnical stability.

As mentioned above in the Range of Alternatives section, we recommend that the Corps consider alternatives to improve physical stability of the tailings, including consideration of filtered tailings (dry stack). We note that consideration of a filtered tailings alternative and assessment of safety and stability via a FMEA and independent review panel are consistent with recommendations of *The Independent Expert Engineering Investigation and Review Panel Report on Mount Polley Tailings Storage Facility Breach* (January 30, 2015). In addition to investigating the cause of the Mount Polley tailings storage facility failure, the Review Panel made recommendations on actions that could be taken to ensure that similar failure does not occur at other mines. We recommend that the Corps consider the Review Panel Report and, in particular, the recommendations related to best available technology for new impoundments, design commitments to support permit applications, and actions to validate the safety of tailings storage facilities.

### **Hazardous Materials**

We recommend that the EIS address the potential direct, indirect, and cumulative impacts of hazardous materials/wastes management and storage from the construction and operation of the proposed project and alternatives. Mining activities may involve the transport of hazardous materials, and we recommend that the EIS disclose the types and amounts of materials that will be used at each step of mining operations. In addition, we recommend that the EIS describe measures that will be taken to minimize the

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<sup>39</sup> 33 C.F.R. § 325.1.

chances of an accidental release, emergency measures that will be implemented should such an event occur, and how potential adverse impacts from spills may be mitigated by effective containment and cleanup operations.

We also recommend that potential health impacts to local communities or other project area users be identified, as well as any strategies employed to communicate risks or actual emergencies. As part of this analysis, we recommend that the EIS use scientific and traditional ecological knowledge to describe potential health effects from exposure to hazardous materials and the effects on the palatability of eating potentially contaminated foods.

## **HUMAN HEALTH AND IMPACTS TO COMMUNITIES**

### **Sociocultural Impacts**

It is anticipated that the proposed project will result in employment opportunities for Alaska Native residents, as well as generate local and corporate revenues in the region. While employment opportunities and local revenues generally increase a community's standard of living, there can also be impacts to families, communities, and cultures, especially in areas where residents are participating in traditional cultural practices. Noise and physical structures may disturb and/or displace subsistence wildlife from the project area. Other project impacts may affect a community's ability to access traditional and accustomed subsistence use areas. We recommend that the EIS identify the specific communities, federally recognized tribes, and corporations that could be impacted, both positively and negatively, which will help agency decision makers and the public understand the scope of the potential sociocultural impacts.

We recommend that the sociocultural impacts associated with this project and alternatives be fully evaluated and disclosed in the EIS and include, but not be limited to, the following:

- **Socioeconomic Impacts**
  - Evaluate potential changes to the region's economy as a result of the mine construction and operation (e.g., changes to commercial fishery, recreational fishery, and tourism sectors).
  - Evaluate impacts associated with economic changes to families, communities, and cultures, including potential changes to those aspects of the area's economy that are currently subsistence-based;
  - Evaluate the potential decline in the region's economy following mine closure; and
  - Evaluate replacement costs of traditional foods if access or availability are impacted by the proposed project.
- **Accessibility of Traditional Use Areas**
  - Identify community traditional use areas for subsistence, harvesting, hunting and trapping, fishing, travelling, camping, berry picking, and other uses;
  - Describe the potential access limitations to these traditional use areas and their impacts to local communities; and
  - Coordinate with the tribes and communities on options for mitigating impacts associated with accessibility to traditional and accustomed use areas.
- **Compatibility of Traditional Use Areas**
  - Identify project activities that may conflict with traditional and accustomed uses; and

- Coordinate with the affected tribes and communities to identify mitigation options for avoiding and minimizing conflicts between traditional and accustomed subsistence uses and the construction and operation of this project.

## **Environmental Justice and Impacted Communities**

In compliance with NEPA and Executive Order 12898 on Environmental Justice, actions should be taken to conduct adequate public outreach and participation that ensures that the public and Native American tribes understand possible impacts to their communities and trust resources.

Executive Order 12898 requires each federal agency to identify and address disproportionately high and adverse human health or environmental effects of its programs, policies, and activities on minority populations, low-income populations, and Native American tribes.<sup>40</sup> The EPA also considers children, the disabled, the elderly, and those of limited English proficiency to be uniquely vulnerable populations that may be impacted.

The CEQ has developed guidance concerning how to address Environmental Justice in the environmental review process.<sup>41</sup> In accordance with this guidance, the EPA recommends that the EIS address the following points:

- Identify low income, minority, and Alaska Native communities that may be impacted by the project;
- Describe the efforts that have been or will be taken to meaningfully involve and inform affected communities about project decisions and impacts;
- Disclose the results of meaningful involvement efforts, such as community identified impacts;
- Evaluate identified project impacts for their potential to disproportionately impact low income, minority, or Alaska Native communities, relative to a reference community;
- Disclose how potential disproportionate impacts and environmental justice issues have been or will be addressed by the Corps' decision making process;
- Propose mitigation for unavoidable impacts that will or are likely to occur; and
- Include a summary conclusion, sometimes referred to as an "environmental justice determination" that concisely expresses how environmental justice impacts have been appropriately avoided, minimized, or mitigated.

We also recommend that particular attention be given to consideration of the dependence of local communities on local and regional subsistence resources, access to those resources, and perception of the quality of those resources. Additional information and tools for environmental justice analysis can be found on the EPA's website at: <https://www.epa.gov/environmentaljustice>.

## **Health Risk or Impact Analysis**

The EPA recommends that the Corps undertake a screening process to determine which aspects of health (including but not limited to public, environmental, mental, social, and cultural) could be impacted by the proposed project. Depending on the screening results, an analysis of health effects, such

<sup>40</sup> EO 12898: Federal Actions To Address Environmental Justice in Minority Populations and Low-income Populations. February 11, 1994.

<sup>41</sup> <http://ceq.hss.doe.gov/nepa/regs/ej/justice.pdf>.

### Scope of Health Assessment in EIS

## Data Collection

## Methods and Tools

Guidelines for conducting an HIA are available from various sources.<sup>43</sup> The World Health Organization has links to many guides.<sup>44</sup> The International Finance Corporation has also developed detailed guidelines for conducting an HIA.<sup>45</sup> In addition, the State of Alaska has developed *Technical Guidance for Health Impact Assessment*, also known as the “Alaska HIA Toolkit”.<sup>46</sup>

<sup>46</sup> See <http://dhss.alaska.gov/dph/Epi/hia/Documents/AlaskaHIAToolkit.pdf>.



## **CONSULTATION AND COORDINATION WITH TRIBAL GOVERNMENTS**

Executive Order 13175, Consultation and Coordination with Indian Tribal Governments (November 6, 2000), was issued to establish regular and meaningful consultation and collaboration with tribal officials in the development of federal policies that have tribal implications, and to strengthen the United States' government-to-government relationships with Indian tribes. In addition, pursuant to Public Law 108-119, 118 Stat. 452, as amended by Public Law 108-4217, 188 Stat. 3267, federal agencies are required to consult with Alaska Native Claims Settlement Act corporations on the same basis as Indian tribes under Executive Order 13175. We recommend that the EIS describe the process and outcome of any government-to-government and/or government-to-corporation consultations regarding the Pebble Project, issues that were raised during the tribal consultations and how those issues were addressed.

Cooperating agency involvement establishes a mechanism for addressing intergovernmental issues throughout the EIS development process, and we support the Corps' inclusion of two tribal governments as cooperating agencies. We recommend that the Corps remain open to including other potentially affected tribal governments that have the resources and interest in serving as cooperating agencies for EIS development, consistent with the July 28, 1999, memorandum from CEQ to the heads of federal agencies.

## **ANALYSIS TOOLS AND METHODOLOGIES**

### **Baseline Data Adequacy**

We suggest categorizing and synthesizing existing data to ensure pertinent information is available for review and use in the EIS analysis. We understand that the Corps intends to establish focused workgroups during development of the EIS. We support this approach and recommend that the workgroups include cooperating agency subject matter experts for key areas (air, water, wetlands, fisheries, etc.) to review baseline data for completeness, identify data gaps, and recommend approaches toward resolving those gaps in a timely manner. For example, additional analysis or collection of additional data may be required to characterize the accuracy of best available baseline estimates of resources such as fish populations, groundwater elevations, or wetland extents. Such information will be critical for designing and developing a robust monitoring framework and for assessing impacts during and after project development and comparing those to the baseline.

### **Geochemistry/Characterization of Ore, Waste Rock, and Tailings**

To provide reliable predictions of water quality and impacts to surface water and groundwater due to wastewater and mine waste management, we recommend that the physical and chemical characteristics of the ore, pit walls, waste rock, and tailings should be determined and disclosed in the EIS. Environmental samples used to support projections should represent a range of conditions that currently occur and that could occur in the future as a result of the project, including under potentially altered future climate conditions. Waste materials (ore, waste rock, tailings) used for environmental projections should be representative of the material to be mined and related to the mine plan and proposed processing methods. Physical and chemical characterization should be conducted in a manner that provides environmentally conservative estimates of impacts.



It may be helpful to consider EPA Region 10's Sourcebook for Hardrock Mining for recommendations related to the NEPA analyses of mining projects.<sup>47</sup> We recommend that the following information be utilized to characterize geologic and mineralogy setting/aqueous geochemistry in the baseline environment and impact prediction sections of the EIS:

- Whole rock analysis;
- Mineralogy;
- Drill core descriptions;
- Block model or similar model (a computerized estimate of the quantity and characteristics of ore and waste);
- Available literature on the ore deposit;
- Mineral occurrences (e.g., on fracture surfaces, in groundmass, using hand specimens and thin section) with an emphasis on sulfides and carbonates;
- Acid-base accounting;
- Long-term kinetic testing (including possible startup of test pads if sufficient material and access to site are available);
- Baseline surface and ground water quality and flows (including springs);
- Potentiometric surface for groundwater;
- Hydraulic properties (e.g., hydraulic conductivity, porosity, permeability) of soil, vadose zone, and groundwater aquifers, especially under proposed locations of mine facilities; and
- Hydrogeochemical models for prediction of water quality.

### **Predictive Modeling**

We recommend that predictive modeling be based on a site-specific conceptual model that describes the system boundaries, spatial and temporal scales, hydraulic (for water modeling) and chemical characteristics, sources of data and data gaps, and the mathematical relationships used to describe processes. We also recommend that our suggestions be applied to any environmental and predictive modeling used for assessing impacts in the EIS. The water quality model, in particular, should be capable of predicting both whole water and dissolved fractions of metals/metalloids and should provide temporal predictions that are consistent with the time-steps in applicable water quality criteria.

Any modeling documentation should include:

- Tables of parameter values used in the model;
- Tables and graphs of results;
- Uncertainty and sensitivity analyses;
- Errors associated with both measured and assumed data; and
- Recommendations for further analysis, if applicable.

We recommend that discussions on modeling include a clear statement of the management objectives intended to be achieved by the modeling, the level of analysis required to meet the objectives, and uncertainties associated with modeled outcomes. For your reference, please refer to EPA's guidance that provides recommendations for the effective development, evaluation, and use of models in

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<sup>47</sup>U.S. EPA Region 10. 2003. EPA and Hardrock Mining: A Source Book for Industry in the Northwest and Alaska January 2003.

environmental decision making.<sup>48</sup>

We recommend that the EIS use caution in describing absolute outcomes based on modeling. Mathematical modeling used for describing the physical and chemical characteristics of the project site and potential impacts includes a level of uncertainty; understanding these uncertainties and associated risks is necessary for informed decision making. We recommend that the study plan for modeling analysis clearly state the purpose, questions of concern, method, data, and limitations of the model to generate valuable interpretations. We also strongly recommend an appropriately conservative approach be taken with modeling and a range of predictive outcomes be discussed (e.g., most likely case, reasonable worst-case, and reasonable best-case scenarios) that reflect a range of climatic settings and critical input values. Inclusion of a reasonable range of outcomes allows the agencies to make better informed plans for mitigation, adaptive management, and contingencies to respond to reasonably foreseeable adverse impacts.

### **Traditional Ecological Knowledge**

Due to the location of the proposed project and traditional uses of the area, we recommend the identification, inclusion, and integration of traditional ecological knowledge into the EIS analysis, as appropriate. Such anthropological work can include the collection of local and traditional knowledge concerning the affected environment, anticipated impacts from the project, and traditional hunting and land use patterns in the area. We recommend that, in addition to reviewing any pertinent traditional ecological knowledge currently available, additional studies be conducted as necessary to clearly identify concerns and potential impacts, including cumulative impacts, from the proposed project and project alternatives. This information should be reviewed and included in the EIS to the extent possible and utilized in the analysis of potential impacts.

## **MITIGATION, MONITORING, AND ADAPTIVE MANAGEMENT**

### **Mitigation**

CEQ regulations at 40 C.F.R. § 1508.20 define mitigation to include five categories of actions to address impacts. Briefly stated, these are: avoiding, minimizing, rectifying, reducing, and compensating. The regulations at 40 C.F.R. § 1502.14(f), 1502.16(h), and 1508.25 indicate that appropriate mitigation measures should be addressed in an EIS both as part of the analysis of alternatives and in discussions of environmental consequences.

Mitigation is also relevant to evaluating compliance with the Guidelines, which prohibit discharges of dredged or fill material that will cause or contribute to significant degradation of the waters of the United States, and prohibit all discharges *“unless appropriate and practicable steps have been taken which will minimize potential adverse impacts of the discharge on the aquatic ecosystem.”*<sup>49</sup>

The Guidelines identify numerous types of actions to mitigate potential adverse impacts, which include

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<sup>48</sup> Guidance Document on the Development, Evaluation and Application of Environmental Models (PDF), EPA/100/K-09/003, March 2009. <http://www.epa.gov/crem/cremlib.html>.

<sup>49</sup> 40 C.F.R. § 230.10(d).

measures to avoid, minimize, and compensate for impacts. Avoidance, minimization, and compensation form a “mitigation sequence” that must be followed in order to comply with the Guidelines’ requirement that all appropriate and practicable steps be taken to mitigate impacts to aquatic resources.<sup>50</sup> Compensatory mitigation considerations under the Guidelines are discussed further in the section on aquatic resources above.

The EPA recommends that the EIS identify the type of activities that would require mitigation measures during the construction, operation, and closure phases of this project. In addition, we recommend identifying whether implementation of each measure is required by the Corps or any other governmental entity and which entity will be responsible for implementing the measure. To the extent possible, mitigation goals and measurable performance standards should be identified in the EIS to reduce impacts to a particular level or adopted to achieve an environmentally preferable outcome. CEQ guidance on the Appropriate Use of Mitigation and Monitoring seeks to enable agencies to create successful mitigation planning and implementation procedures with robust public involvement and monitoring programs.<sup>51</sup>

### Monitoring

Environmental monitoring programs should be designed to assess both impacts from the project and whether implemented mitigation measures are effective. We recommend that the monitoring programs:

- Define the monitoring goals and objectives;
- Provide details to demonstrate that goals and objectives will be achieved such as the parameters to be monitored, monitoring locations and frequency, data analysis, and reporting;
- Discuss actions (contingencies, triggers, adaptive management, corrective actions, etc.) that will be taken based on monitoring results;
- Identify and incorporate controls and pre-project data with quantified bias and precision to enable detection of impacts, success of BMPs, and ability to distinguish these from natural variation; and
- Require regular analysis and reporting of data to oversight agencies, including submittal of a sampling and quality assurance plan for agency approval.

We recommend that the monitoring programs be described in the EIS and that the EIS also discuss public participation, and how the public can get information on mitigation effectiveness and monitoring results.

### Adaptive Management Planning

We recommend that the EIS utilize adaptive management and contingency planning to describe the strategy for responding to unforeseen circumstances at the site. The strategy should include “trigger levels” (e.g., exceedance of ecological benchmarks) or observations (e.g., statistically significant trends in indicators, permit violations, water balance problems, changes in discharge or chemistry of springs/seeps) that would set follow-up actions into motion. This strategy or plan should be described so that reviewers may comment on its adequacy. This type of plan, when coupled with the monitoring program, is necessary to mitigate for uncertainties and risks associated with predictions of

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<sup>50</sup> 40 C.F.R. § 230.10(a), (d); See Memorandum of Agreement between U.S. Department of Army and the Environmental Protection Agency on the Determination of Mitigation Under the Clean Water Act Section 404(b)(1) Guidelines.

<sup>51</sup> [https://ceq.doe.gov/docs/ceq-regulations-and-guidance/Mitigation\\_and\\_Monitoring\\_Guidance\\_14Jan2011.pdf](https://ceq.doe.gov/docs/ceq-regulations-and-guidance/Mitigation_and_Monitoring_Guidance_14Jan2011.pdf).

environmental outcomes, and will provide an early warning system of unexpected outcomes.

## **FINANCIAL ASSURANCE**

NEPA provides for the disclosure of all information concerning the environmental consequences of a proposed action to agency decision makers and the public before decisions are made and actions are taken. A key component in determining the environmental impacts of a mining project is the effectiveness of the closure and reclamation activities, including long-term water management. In turn, whether any closure and reclamation activities that may be necessary will be adequately funded is key to determining whether those activities will be effective. We therefore recommend that the project's ability to self-fund, and/or any third-party financial assurance mechanisms, be disclosed. Disclosure of the financial assurance amount and mechanism is particularly important for this project given that PLP's proposal includes long term water management and treatment.

We recommend that the draft EIS disclose the estimated costs to reclaim and close the site in a manner that achieves reclamation goals and post-mining land use objectives. The EPA recommends that the final EIS identify proposed financial assurance mechanisms and demonstrate that these mechanisms would ensure that necessary reclamation work is completed.

The EPA is available for further conversations about the level of detail to include in the document. Below are the main elements that we believe should be disclosed in the EIS:

### **1. Site Reclamation** (facility closure, earth moving/stabilization, revegetation, etc.):

- Phases of reclamation;
- Estimated cost (+/- percent) to reclaim and close the site in a manner that achieves reclamation goals and post-mining land use objectives;
- Criteria for determining success of reclamation activities for financial assurance release; and
- Costs associated with implementing contingency measures to address reasonably foreseeable but not specifically predicted outcomes.

### **2. Long-Term Site Management** (post-closure water treatment, mitigation of impacts to aquatic resources, site maintenance, and monitoring):

- Itemized cost estimate (including reasonable contingencies) and appropriate economic variables to calculate the net present value of future expenses; and
- If a trust fund is utilized, address the "mechanics" of the fund, including:
  - Trust fund mechanism (e.g., current value trust, net present value trust, etc.);
  - Requirements for timing of payments into the trust fund;
  - How the Corps would ensure that the trust fund or other financial assurance could not be claimed by a creditor in the case of bankruptcy;
  - Acceptable financial instruments;
  - How trust management fees and taxes will be paid;
  - Identity of the trust fund beneficiaries; and
  - Identity of the operator with responsibility/liability for financial assurance.

Message

---

**From:** Vaughan, Molly [Vaughan.Molly@epa.gov]  
**Sent:** 6/26/2018 6:17:06 PM  
**To:** Allnutt, David [Allnutt.David@epa.gov]  
**CC:** Nogi, Jill [nogi.jill@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]  
**Subject:** FW: Pebble Letter.

Hello David,  
Per the voicemail I just left you, here is the latest on the status of the letter review in OGC.  
Thank you,  
Molly

---

**From:** Nalven, Heidi  
**Sent:** Tuesday, June 26, 2018 9:54 AM  
**To:** Marshall, Tom <marshall.tom@epa.gov>; Barnhart, Megan <barnhart.megan@epa.gov>  
**Cc:** Vaughan, Molly <Vaughan.Molly@epa.gov>; Knight, Kelly <knight.kelly@epa.gov>; Hoppe, Allison <hoppe.allison@epa.gov>; Wehling, Carrie <Wehling.Carrie@epa.gov>; Koslow, Karin <Koslow.Karin@epa.gov>  
**Subject:** RE: Pebble Letter.

Carrie checked in with David Fotouhi yesterday and he said he is not done with the letter and needs to follow-up with Justin.

We can make sure David knows that Region 10 is waiting on OGC.

---

**From:** Marshall, Tom  
**Sent:** Tuesday, June 26, 2018 1:45 PM  
**To:** Barnhart, Megan <barnhart.megan@epa.gov>  
**Cc:** Vaughan, Molly <Vaughan.Molly@epa.gov>; Knight, Kelly <knight.kelly@epa.gov>; Nalven, Heidi <Nalven.Heidi@epa.gov>; Hoppe, Allison <hoppe.allison@epa.gov>; Wehling, Carrie <Wehling.Carrie@epa.gov>; Koslow, Karin <Koslow.Karin@epa.gov>  
**Subject:** RE: Pebble Letter.

Hi, Megan. Copying Heidi re: your inquiry below, in case she has any update. (She has the Pebble lead in OGC; at least today, though, I know our FO is very jammed.)

Deliberative Process / Ex. 5

Deliberative Process / Ex. 5

hanks.

---

202.564.5549

---

**From:** Barnhart, Megan  
**Sent:** Tuesday, June 26, 2018 12:44 PM  
**To:** Marshall, Tom <marshall.tom@epa.gov>  
**Cc:** Vaughan, Molly <Vaughan.Molly@epa.gov>; Knight, Kelly <knight.kelly@epa.gov>  
**Subject:** FW: Pebble Letter.

Tom,

We just closed the loop with OW (see email below). Are there any updates from OGC?

Best,  
Megan

---

**From:** Kaiser, Russell  
**Sent:** Tuesday, June 26, 2018 12:26 PM  
**To:** Barnhart, Megan <[barnhart.megan@epa.gov](mailto:barnhart.megan@epa.gov)>  
**Cc:** Hough, Palmer <[Hough.Palmer@epa.gov](mailto:Hough.Palmer@epa.gov)>; Allnutt, David <[Allnutt.David@epa.gov](mailto:Allnutt.David@epa.gov)>  
**Subject:** Pebble Letter.

Megan,

# Deliberative Process / Ex. 5

Thanks

Russell L. Kaiser  
Chief, Freshwater and Marine Regulatory Branch  
Oceans, Wetlands and Communities Division  
Office of Wetlands, Oceans and Watersheds  
1301 Constitution Ave., N.W.  
Room 7114B West Bldg.  
Washington, DC 20004  
P: 202.566.0963  
C: 202.579.0421

Message

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**From:** Hough, Palmer [Hough.Palmer@epa.gov]  
**Sent:** 11/15/2018 11:15:31 PM  
**To:** Bennett, Brittany [bennett.brittany@epa.gov]; Herbst, John [herbst.john@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Ortiz, Michael [Ortiz.Michael@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Wake, Neverley [wake.neverley@epa.gov]; Wehling, Carrie [Wehling.Carrie@epa.gov]; Whitley, Annie [Whitley.Annie@epa.gov]  
**CC:** Kaiser, Russell [Kaiser.Russell@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]  
**Subject:** Notes from 11-14-18 meeting between Deputy AA OW and PLP  
**Attachments:** Bristol Bay Meeting Notes 11.14.2018 RLK.DOCX

Pebble 404(c) Team

Yesterday Lee Forsgren met with PLP and other BB stakeholders supportive of Pebble mine. Attached are the notes from that meeting put together by Russ Kaiser. Please add these to our meeting records.

Thanks, Palmer

---

Palmer Hough, Environmental Scientist  
office: 202.566.1374

Office of Wetlands, Oceans, and Watersheds  
U.S. EPA Headquarters (MC 4504T)  
1200 Pennsylvania Avenue, NW  
Washington, DC 20460  
[www.epa.gov/wetlands](http://www.epa.gov/wetlands)

| EPA Deputy AA Meeting with PLP  |  |
|---|--|
| <b>Topic: Bristol Bay</b>   |  |
| <b>Meeting Date: Nov 14, 2018</b>   |  |
| <b>Location: EPA HQ (Washington, DC)</b>  |  |
| <b>List of Third Party Attendees (including affiliation):</b> <ul style="list-style-type: none"> <li>• Abe Williams, The Pebble Partnership (PLP)</li> <li>• Chasity Anelon, PLP</li> <li>• Rhiannon Nanabook, PLP</li> <li>• Ventura Sumanigo, Kijik</li> <li>• Brad Angasan, ADC</li> <li>• Krista Williams, BBNC Shareholder</li> <li>• Shannon Johnson-Nanabook, Iliamna</li> </ul>   |  |
| <b>Did EPA decide which third parties would attend?: No.</b>  |  |
| <b>List of EPA Attendees:</b> <ul style="list-style-type: none"> <li>• Lee Forsgren</li> <li>• Brian Frazer</li> <li>• Russ Kaiser</li> </ul>   |  |
| <b>Agenda: Status of Bristol Bay PD</b>   |  |
| <b>Did EPA/Third Party Set the Agenda?: Third Party, Abe Williams</b>   |  |
| <b>Did EPA/Third Party Run the Meeting: Meeting ran as a conversation</b>   |  |
| <b>Notes from Discussion (including individual advice/feedback provided to Agency):</b><br>EPA Notes (Forsgren): <ul style="list-style-type: none"> <li>• We will stay on current path, noting there are no immediate actions for EPA to take with respect to the (c) action.</li> <li>• We will remain engaged in the NEPA process as it relates to our mission.</li> <li>• We will continue to be transparent and listen to views from interested parties.</li> <li>• We will use the NEPA document findings and latest science to inform our ultimate decision on the (c) action - we will use facts to support our decision.</li> <li>• We don't know what the final decision will be at this time and reminded them that there is no pre-judged outcome for the action.</li> <li>• Lee will be the lead for OW, and it is not clear at this time if the Acting Administrator or Henry Darwin will be the decision-maker.</li> </ul> Third Party Summary Notes: <ul style="list-style-type: none"> <li>• Requested EPA to please remove the pending (c) action as it is creating investor uncertainties, which is creating a lower growth rate in needed jobs in the area and likely eliminating future jobs as a consequence of not taking an action. Also, potentially causing other community issues.</li> <li>• Looming veto inhibits Corps from completing NEPA process. Lee F clarified that (c) action only prevents Corps from making final permit decision. They can complete NEPA ROD.</li> <li>• Salmon initiative failed ... need to consider that in your findings.</li> <li>• BBNC doesn't represent all positions for the AK Natives.</li> </ul> |  |
| <b>Next Steps/Follow-up Discussed:</b> Request for Lee to convey meeting summary highlights with decision-makers. Lee indicated he would do so when he had the opportunity to do so.  |  |





Message

---

**From:** Nogi, Jill [nogi.jill@epa.gov]  
**Sent:** 4/3/2018 2:30:16 PM  
**To:** Vaughan, Molly [Vaughan.Molly@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]  
**CC:** Fordham, Tami [Fordham.Tami@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]  
**Subject:** RE: BB website - EIS info

Hi Patty,

Thanks for sharing the plan to add a few sentences to the EPA BB website. I also agree with the suggestion to use the sentence Erik suggests (I've added some language to what was proposed) – "The purpose of the NEPA process is to help public officials make informed decisions that are based on an understanding of environmental consequences and take federal agency actions that protect, restore, and enhance the environment." That could come after the sentence (I have added some language) "The EIS will describe the proposed project, evaluate the potential impacts of the project on the physical, biological, and social environment, and discuss the mitigation measures necessary to reduce those impacts."

Jill

---

**From:** Vaughan, Molly  
**Sent:** Monday, April 02, 2018 4:06 PM  
**To:** McGrath, Patricia <mcgrath.patricia@epa.gov>; Peterson, Erik <Peterson.Erik@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; Palomaki, Ashley <Palomaki.Ashley@epa.gov>  
**Cc:** Fordham, Tami <Fordham.Tami@epa.gov>; Nogi, Jill <nogi.jill@epa.gov>; Allnutt, David <Allnutt.David@epa.gov>  
**Subject:** RE: BB website - EIS info

Hi Patty,

I agree with Erik's edits, and don't have any additional comments.

Thanks,

Molly

---

**From:** McGrath, Patricia  
**Sent:** Monday, April 02, 2018 12:45 PM  
**To:** Peterson, Erik <Peterson.Erik@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; Palomaki, Ashley <Palomaki.Ashley@epa.gov>  
**Cc:** Fordham, Tami <Fordham.Tami@epa.gov>; Nogi, Jill <nogi.jill@epa.gov>; Allnutt, David <Allnutt.David@epa.gov>; Vaughan, Molly <Vaughan.Molly@epa.gov>  
**Subject:** RE: BB website - EIS info

Erik-

The EIS sentence that you refer to came directly out of the Corps' newsletter. I like the small change edit and will include that after hearing back from others.

Thanks- Patty

---

**From:** Peterson, Erik  
**Sent:** Monday, April 2, 2018 1:41 PM  
**To:** Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; McGrath, Patricia <mcgrath.patricia@epa.gov>; Palomaki, Ashley <Palomaki.Ashley@epa.gov>  
**Cc:** Fordham, Tami <Fordham.Tami@epa.gov>; Nogi, Jill <nogi.jill@epa.gov>; Allnutt, David <Allnutt.David@epa.gov>; Vaughan, Molly <Vaughan.Molly@epa.gov>  
**Subject:** RE: BB website - EIS info

Patty,

Sounds good to me to put this on EPA's BB website.

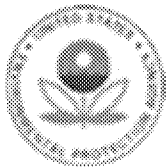
My suggestions on the language:

- Consider spelling out Environmental Impact Statement
- Edit the sentence "The EIS is to evaluate potential impacts of the project on the physical, biological, and social environment".

**Deliberative Process / Ex. 5**

# Deliberative Process / Ex. 5

- Edit "Below is link" to "Below is a link..."



**Erik Peterson**, NEPA Reviewer  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 900  
Seattle, Washington 98101-3140  
(206) 553-6382

**From:** Skadowski, Suzanne

**Sent:** Monday, April 02, 2018 1:12 PM

**To:** McGrath, Patricia <[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)>; Peterson, Erik <[Peterson.Erik@epa.gov](mailto:Peterson.Erik@epa.gov)>; Palomaki, Ashley <[Palomaki.Ashley@epa.gov](mailto:Palomaki.Ashley@epa.gov)>

**Cc:** Fordham, Tami <[Fordham.Tami@epa.gov](mailto:Fordham.Tami@epa.gov)>; Nogi, Jill <[nogi.jill@epa.gov](mailto:nogi.jill@epa.gov)>; Allnutt, David <[Allnutt.David@epa.gov](mailto:Allnutt.David@epa.gov)>; Vaughan, Molly <[Vaughan.Molly@epa.gov](mailto:Vaughan.Molly@epa.gov)>

**Subject:** RE: BB website - EIS info

Thank you Patty!

I think it is a good idea to add some helpful info on the current permit process. I also suggested this to the BB team a while ago.

Your wording looks fine to me, thanks.

**Suzanne Skadowski**

Public Affairs | Media Relations Specialist  
U.S. Environmental Protection Agency

Region 10 Pacific Northwest - Seattle  
O: 206-553-2160 C: 206-900-3309  
Twitter: [@EPAnorthwest](#)  
Facebook: [@eparegion10](#)

---

**From:** McGrath, Patricia

**Sent:** Monday, April 2, 2018 1:03 PM

**To:** Allnutt, David <[Allnutt.David@epa.gov](mailto:Allnutt.David@epa.gov)>; Nogi, Jill <[nogi.jill@epa.gov](mailto:nogi.jill@epa.gov)>; Vaughan, Molly <[Vaughan.Molly@epa.gov](mailto:Vaughan.Molly@epa.gov)>; Fordham, Tami <[Fordham.Tami@epa.gov](mailto:Fordham.Tami@epa.gov)>

**Cc:** Skadowski, Suzanne <[Skadowski.Suzanne@epa.gov](mailto:Skadowski.Suzanne@epa.gov)>; Palomaki, Ashley <[Palomaki.Ashley@epa.gov](mailto:Palomaki.Ashley@epa.gov)>

**Subject:** BB website - EIS info

Hi Molly, Jill, Tami, and David-

Suzanne and I talked briefly about adding a few sentences to EPA's Bristol Bay website about our role in the EIS process and a link to the Corps EIS website.

I think that will help direct folks that are used to looking to EPA for information to the Corps website, particularly now that scoping has begun.

Following is some suggested language. Please let me know if you agree that we should include this on our website and if you have any recommended edits to the language. I have also attached the Corps' Newsletter #1 that was recently posted, FYI.

-----  
**Environmental Impact Statement Process**

The U.S. Army Corps of Engineers received a Department of Army permit application and project description from the Pebble Limited Partnership on December 22, 2017 and has determined that an EIS under the National Environmental Policy Act is needed before it makes a decision on the permit application. The Corps is the lead agency in managing the EIS process and developing the EIS. EPA is a cooperating agency in the EIS process, at the invitation of the Corps. The EIS is to evaluate potential impacts of the project on the physical, biological, and social environment. The Corps initiated public scoping of the EIS on April 1, 2018. Below is link to the Corps EIS website for more information and documents pertaining to the Department of Army permit application and EIS process.  
<https://www.pebbleprojecteis.com/#/>

**Patty McGrath | Mining Advisor**

U.S. Environmental Protection Agency, Region 10  
1200 Sixth Avenue, Seattle, WA 98101  
M/S: RAD-202  
Office: (206) 553-6113  
Cell: (206) 743-7068  
[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)

Message

---

**From:** Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]  
**Sent:** 5/24/2018 6:05:22 PM  
**To:** Allnutt, David [Allnutt.David@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]  
**CC:** Peterson, Erik [Peterson.Erik@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]  
**Subject:** RE: QFRs Calvert 28-32

Seems like it may need to get elevated in OGC? Including Allyn.

---

**From:** Allnutt, David  
**Sent:** Thursday, May 24, 2018 10:43 AM  
**To:** Palomaki, Ashley <Palomaki.Ashley@epa.gov>  
**Cc:** Peterson, Erik <Peterson.Erik@epa.gov>; Steiner-Riley, Cara <Steiner-Riley.Cara@epa.gov>  
**Subject:** RE: QFRs Calvert 28-32

Chris was scheduled to have a call with Lee earlier this morning – though not on this particular topic, I don't think.

I can try to figure out what was discussed, but won't push on this issue unless others want me to.



**R. David Allnutt**, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581

---

**From:** Palomaki, Ashley  
**Sent:** Thursday, May 24, 2018 10:05 AM  
**To:** Allnutt, David <Allnutt.David@epa.gov>  
**Cc:** Peterson, Erik <Peterson.Erik@epa.gov>; Steiner-Riley, Cara <Steiner-Riley.Cara@epa.gov>  
**Subject:** RE: QFRs Calvert 28-32

## Attorney Client Privilege/Deliberative Process Privilege / Ex. 5

## Attorney Client Privilege/Deliberative Process Privilege / Ex. 5

**Ashley Palomaki**

Assistant Regional Counsel  
U.S. EPA Region 10 Office of Regional Counsel  
1200 Sixth Avenue, Suite 155, ORC-113  
Seattle, WA 98101  
206-553-8582

---

**From:** Palomaki, Ashley

**Sent:** Monday, May 21, 2018 10:58 AM

**To:** Steiner-Riley, Cara <[Steiner-Riley.Cara@epa.gov](mailto:Steiner-Riley.Cara@epa.gov)>; Allnutt, David <[Allnutt.David@epa.gov](mailto:Allnutt.David@epa.gov)>; Peterson, Erik <[Peterson.Erik@epa.gov](mailto:Peterson.Erik@epa.gov)>

**Subject:** FW: QFRs Calvert 28-32

Hi –

## Attorney Client Privilege/Deliberative Process Privilege / Ex. 5

**Ashley Palomaki**

Assistant Regional Counsel  
U.S. EPA Region 10 Office of Regional Counsel  
1200 Sixth Avenue, Suite 155, ORC-113  
Seattle, WA 98101  
206-553-8582

---

**From:** Nalven, Heidi

**Sent:** Monday, May 21, 2018 10:09 AM

**To:** Logan, Shanita <[logan.shanita@epa.gov](mailto:logan.shanita@epa.gov)>; Green, Noelle <[Green.Noelle@epa.gov](mailto:Green.Noelle@epa.gov)>

**Cc:** Koslow, Karin <[Koslow.Karin@epa.gov](mailto:Koslow.Karin@epa.gov)>; Siciliano, CarolAnn <[Siciliano.CarolAnn@epa.gov](mailto:Siciliano.CarolAnn@epa.gov)>; Neugeboren, Steven <[Neugeboren.Steven@epa.gov](mailto:Neugeboren.Steven@epa.gov)>; Lindo, Talitha <[lindo.talitha@epa.gov](mailto:lindo.talitha@epa.gov)>; Wehling, Carrie <[Wehling.Carrie@epa.gov](mailto:Wehling.Carrie@epa.gov)>; Palomaki, Ashley <[Palomaki.Ashley@epa.gov](mailto:Palomaki.Ashley@epa.gov)>

**Subject:** RE: QFRs Calvert 28-32

Hi Shanita,

I have attached edits and comments from me and Carrie per your direction. Please let me know if you need anything further.

Heidi

**Heidi Nalven**

U.S. EPA Office of General Counsel  
202-564-3189

---

**From:** Logan, Shanita

**Sent:** Friday, May 18, 2018 6:05 PM

**To:** Green, Noelle <[Green.Noelle@epa.gov](mailto:Green.Noelle@epa.gov)>; Nalven, Heidi <[Nalven.Heidi@epa.gov](mailto:Nalven.Heidi@epa.gov)>

**Cc:** Koslow, Karin <[Koslow.Karin@epa.gov](mailto:Koslow.Karin@epa.gov)>; Siciliano, CarolAnn <[Siciliano.CarolAnn@epa.gov](mailto:Siciliano.CarolAnn@epa.gov)>; Neugeboren, Steven <[Neugeboren.Steven@epa.gov](mailto:Neugeboren.Steven@epa.gov)>; Lindo, Talitha <[lindo.talitha@epa.gov](mailto:lindo.talitha@epa.gov)>

**Subject:** QFRs Calvert 28-32

All,

The attached QFR(s) has been forwarded for your review, feedback and/or concurrence. Please use one of the following reply options:

- 1) No comments/feedback (single or multiple QFR's) – Select the **Comment icon** and simply type **concur**;
- 2) Comment(s) to a single question– Use **Track Changes** and/or **Comment icon** to insert all comments and feedback into the Word document.
- 3) Combined set of questions - Within the same document, please select the **Comment icon** to **concur**; and use **Track Changes** and/or **Comment icon** to insert all comments and feedback – see example below

Responses are due by **cob, May 22, 2018**. Please forward all Word documents to RMO's Budget team: Shanita Logan ([logan.shanita@epa.gov](mailto:logan.shanita@epa.gov)) and Talitha Lindo ([lindo.talitha@epa.gov](mailto:lindo.talitha@epa.gov)) .

Thanks.

Shanita Logan  
202-564-0227

Example

**Question:** Please outline in detail the costs to close these facilities and how EPA expects to absorb these costs within the proposed budget, including both the real estate costs of facility closure and the costs of personnel separations.

**Answer:** The FY 2018 budget request does not propose to close any EPA Environmental Protection Agency regional offices.

Commented [LS1]: Example Needs more work. XXXX

**Question:** How would EPA manage an immediate disaster response to a natural disaster, industrial accident, or terrorist attack affecting our environment that adequately and rapidly coordinates federal, state and local first responders, environmental agencies, law enforcement and others, in the total absence of a nearby regional EPA office?

**Answer:** The FY 2018 budget request does not propose to close any EPA regional offices.

Commented [LS2]: Concur



Message

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**From:** Duncan, Bruce [Duncan.Bruce@epa.gov]  
**Sent:** 4/24/2018 6:40:56 PM  
**To:** LaVay, Maggie [LaVay.Maggie@epa.gov]; Blank, Valerie [Blank.Valerie@epa.gov]  
**CC:** Allnutt, David [Allnutt.David@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Hagerthey, Scot [Hagerthey.Scot@epa.gov]; Ebersole, Joe [Ebersole.Joe@epa.gov]  
**Subject:** FW: ORD support for Pebble EIS  
**Attachments:** ORD Regional Decision Support Request\_PebbleEIS\_April2018.docx  
  
**Importance:** High

Dear Maggie and Val,

Please find attached the Region 10 technical support request form for assistance. This is a high priority for R10 and we look forward to support starting as soon as possible. Our Regional Mining Advisor has been discussing the specifics with ORD Scientists already so this will not come as a surprise. Let me know of any next steps and how I can assist with the support request.

Bruce

Bruce Duncan  
*Regional Science Liaison to Office of Research & Development*

U.S. Environmental Protection Agency | Region 10  
1200-6th Ave, Suite #155, Mail Stop OERA-140; Seattle, WA 98101-3140  
206.553.0218 | [duncan.bruce@epa.gov](mailto:duncan.bruce@epa.gov)

---

**From:** McGrath, Patricia  
**Sent:** Tuesday, April 24, 2018 8:33 AM  
**To:** Duncan, Bruce <Duncan.Bruce@epa.gov>  
**Cc:** Allnutt, David <Allnutt.David@epa.gov>; Nogi, Jill <nogi.jill@epa.gov>; Vaughan, Molly <Vaughan.Molly@epa.gov>  
**Subject:** RE: ORD support for Pebble EIS

Hi Bruce-

Attached is the completed form. Please let me know if you need more information.

We would like some immediate assistance from Joe Ebersole to help us with scoping comments (due before the end of June) if that can be arranged.

Thanks-

Patty

---

**From:** Duncan, Bruce  
**Sent:** Monday, April 23, 2018 4:21 PM  
**To:** McGrath, Patricia <[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)>  
**Cc:** Allnutt, David <[Allnutt.David@epa.gov](mailto:Allnutt.David@epa.gov)>; Vaughan, Molly <[Vaughan.Molly@epa.gov](mailto:Vaughan.Molly@epa.gov)>; Nogi, Jill <[nogi.jill@epa.gov](mailto:nogi.jill@epa.gov)>; Hagerthey, Scot <[Hagerthey.Scot@epa.gov](mailto:Hagerthey.Scot@epa.gov)>  
**Subject:** RE: ORD support for Pebble EIS

Thanks Patti,

Here is a link to the form that OSP uses (from the R10 Science Steering Council SharePoint)

## SUBMIT A TECHNICAL SUPPORT REQUEST:

Request Form - this form (Click [HERE](#)) is submitted to OSP who will help find the ORD support if available.

The form is pretty simple – if you need help I can arrange the information you provided into the desired format:

| ORD Regional Decision Support Request  |             |
|--|-------------|
| <b>Initiating Region and Division</b><br>Region 10   | <b>Date</b> |
| <b>Contact Information</b><br>Name:<br>Phone Number:<br>Email:   |             |
| <b>Project Title</b>   |             |
| <b>Type of Scientific Support Requested</b><br><input type="checkbox"/> Consultative advice<br><input type="checkbox"/> Workgroup/seminar/committee participation<br><input type="checkbox"/> Document review<br>Other (please specify)  |             |
| <b>Description of Science Need – One-time request</b><br><u>Background &amp; Problem.</u><br><br><u>Assistance Needed/Research Steps</u>   |             |
| <b>Project Milestones and Due Date</b>   |             |
| <b>Estimated number of hours required to complete request</b><br><input type="checkbox"/> 1 – 4 hours <input type="checkbox"/> 8 – 16 hours<br><input type="checkbox"/> 4 – 8 hours <input type="checkbox"/> >16 hours<br>If >16, please provide an estimate of the hours needed |             |
| <b>Type of expertise needed</b> (e.g., human health risk assessment, aquatic toxicology)   |             |
| <b>Have you worked with ORD scientists on this project previously?</b><br><input type="checkbox"/> Yes <input type="checkbox"/> No   |             |
| <b>If yes, please list the names of the scientists.</b>  |             |
| <b>Regional Priority</b> (To be completed by Regional Science Liaison – Bruce Duncan)<br><input type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low  |             |

From: McGrath, Patricia

Sent: Monday, April 23, 2018 1:46 PM

**To:** Duncan, Bruce <Duncan.Bruce@epa.gov>

**Cc:** Allnutt, David <Allnutt.David@epa.gov>; Vaughan, Molly <Vaughan.Molly@epa.gov>; Nogi, Jill <nogi.jill@epa.gov>;

Hagerthey, Scot <Hagerthey.Scot@epa.gov>

**Subject:** ORD support for Pebble EIS

Hello Bruce-

Last week I spoke with Scot Hagerthey regarding ORD support for our cooperating agency participation in the Pebble EIS. He acknowledged that ORD folks are interested and available and requested that I send the request for ORD support through you. Can you let me know how you like to see these requests. Is an email from me sufficient? Following is the support that is needed.

Request for ORD Support for Pebble Environmental Impact Statement

The US Army Corps of Engineers is the lead agency in developing an EIS for the Pebble Mine Project in Alaska. The Corps invited EPA to be a cooperating agency to assist the Corps in developing sections of the EIS. In addition, EPA is responsible for reviewing the Draft EIS and the public notice for the CWA 404 permit application. EPA Region 10 has put together a team to accomplish these responsibilities. There are several areas where EPA is requesting support from ORD to bolster EPA's review team and also benefit from ORD's past work in the Bristol Bay watershed where the mine project is located. From 2011 to 2014, EPA Region 10 and EPA's Office of Water worked with ORD in developing the Bristol Bay Watershed Assessment. ORD's experience and understanding of the watershed and potential impacts that could occur during mining will provide needed support to EPA Region 10's NEPA/permit review team in several key areas.

The key areas where we are requesting support are identified below.

| Specialty      | Summary of Assistance Requested   | ORD staff requested   |
|----------------|---|---|
| Fisheries      | Provide advice to EPA's team on fisheries issues<br>Provide input into EIS scoping letter<br>Review baseline data<br>Recommend aquatic resources impact assessment methodologies<br>Participate in fisheries technical working group<br>Review and provide comments on fisheries sections of the EIS                          | Joe Ebersole  |
| Hydrology      | Provide advice to EPA's team on hydrology issues<br>Review groundwater and surface water hydrology baseline data<br>Recommend impact assessment methodologies and modelling approaches and review results<br>Participate in hydrology technical working group<br>Review and provide comments on hydrology sections of the EIS | The ORD hydrologist that assisted with the Bristol Bay watershed assessment has retired. We do need support in this area and request that ORD identify individuals that can assist. |
| Transportation | Provide advice to EPA's team on transportation issues<br>Review and provide comments on transportation sections of the EIS  | Michael Kravitz   |
| Coordination   | Participate in monthly Pebble NEPA/permit team to assist with coordinating ORD support<br>Potentially review sections of the EIS  | Kate Schofield  |

In terms of timing, we are requesting ORDs immediate assistance to help with baseline data review and development of EPA's EIS scoping letter. We expect that assistance will be needed throughout the EIS process, with times of intense activity when documents are being reviewed and times with very little activity. The EIS process will take at least two years. There may be additional areas where we need support as the EIS process moves forward.

Please let me know if you need additional information.  
Thanks-

Patty

**Patty McGrath | Mining Advisor**

U.S. Environmental Protection Agency, Region 10

1200 Sixth Avenue, Seattle, WA 98101

M/S: RAD-202

Office: (206) 553-6113

Cell: (206) 743-7068

[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)

| ORD Regional Decision Support Request   |                          |
|---|--------------------------|
| <b>Initiating Region and Division</b><br>Region 10  | <b>Date</b><br>4/24/2018 |
| <b>Contact Information</b><br>Name: Patty McGrath<br>Phone Number: (206) 553-6113<br>Email: mcgrath.patricia@epa.gov  |                          |
| <b>Project Title</b> ORD Support for Pebble Mine Project Environmental Impact Statement   |                          |
| <b>Type of Scientific Support Requested</b><br><input checked="" type="checkbox"/> Consultative advice<br><input checked="" type="checkbox"/> Workgroup/seminar/committee participation<br><input checked="" type="checkbox"/> Document review<br>Other (please specify)  |                          |
| <b>Description of Science Need – One-time request</b><br><u>Background &amp; Problem.</u><br>The US Army Corps of Engineers is the lead agency in developing an EIS for the Pebble Mine Project in Alaska. The Corps invited EPA to be a cooperating agency to assist the Corps in developing sections of the EIS. In addition, EPA is responsible for reviewing the Draft EIS and aspects of the CWA 404 permit process. EPA Region 10 has put together a team to accomplish these responsibilities.<br><br>The Pebble Mine Project is located in the Bristol Bay watershed. This is a high priority project for Region 10 due to the size of the project and ecological setting and past work EPA has undertaken. From 2011 to 2014, EPA Region 10 and EPA's Office of Water worked with ORD in developing the Bristol Bay Watershed Assessment. Below is a link to EPA's Bristol Bay website.<br><a href="https://www.epa.gov/bristolbay">https://www.epa.gov/bristolbay</a><br><br><u>Assistance Needed/Research Steps</u><br>There are several areas where EPA is requesting support from ORD to bolster EPA's EIS/permitting review team and also benefit from ORD's past work in the Bristol Bay watershed. The key areas where we are requesting support include fisheries, hydrology, transportation, and coordination. See "Type of expertise needed" for more details. |                          |
| <b>Project Milestones and Due Date</b><br>EPA scoping comments – 6/29/2018<br>Contributions to technical working groups<br>Draft EIS chapters – summer/fall 2018<br>Draft EIS comments – early 2019<br>Final EIS comments – end 2019/early 2020   |                          |

**Estimated number of hours required to complete request**☐ 1 – 4 hours☐ 8 – 16 hours☐ 4 – 8 hours☒ >16 hours

If >16, please provide an estimate of the hours needed

The number of hours is difficult to estimate due to the nature of the work. There will be times of intense activity during document review and preparation of comments and times where there will be no activity.

For the fisheries and hydrology expertise, estimate each at 100 to 180 hours per year for 2 years.

For transportation expertise, estimate at 50 to 80 hours per year for next 2 years.

**Type of expertise needed (e.g., human health risk assessment, aquatic toxicology)**

Fisheries - provide advice to EPA's team on fisheries issues, provide input into EPA's EIS scoping letter, review fisheries baseline data, recommend aquatic resources impact assessment methodologies, participate in fisheries technical working group, review and provide comments on fisheries sections of the EIS. Requesting Joe Ebersole due to his work on the Bristol Bay Assessment.

Hydrology - provide advice to EPA's team on hydrology issues, provide input into EPA's EIS scoping letter, review groundwater and surface water hydrology baseline data, recommend impact assessment and hydrologic modeling methodologies and review results, participate in hydrology technical working group, review and provide comments on hydrology sections of the EIS

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Coordination - participate in monthly Pebble EIS/permit team meetings to assist with coordinating ORD support and potentially review sections of the EIS. Requesting Kate Schofield due to her work on the Bristol Bay Watershed Assessment.

**Have you worked with ORD scientists on this project previously?**☒ Yes☐ No**If yes, please list the names of the scientists.**

Barbara Butler, Joe Ebersole, Jeff Frithsen, Michael Kravitz, Kate Schofield, Glenn Sutter, Jason Todd, Michael Griffith, Michael McManus, Caroline Ridley

**Regional Priority (To be completed by Regional Science Liaison – Bruce Duncan)**☒ High☐ Medium☐ Low

Message

---

**From:** McGrath, Patricia [mcgrath.patricia@epa.gov]  
**Sent:** 4/24/2018 3:32:47 PM  
**To:** Duncan, Bruce [Duncan.Bruce@epa.gov]  
**CC:** Allnutt, David [Allnutt.David@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]  
**Subject:** RE: ORD support for Pebble EIS  
**Attachments:** ORD Regional Decision Support Request\_PebbleEIS\_April2018.docx

Hi Bruce-

Attached is the completed form. Please let me know if you need more information.

We would like some immediate assistance from Joe Ebersole to help us with scoping comments (due before the end of June) if that can be arranged.

Thanks-

Patty

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**Sent:** Monday, April 23, 2018 4:21 PM  
**To:** McGrath, Patricia <mcgrath.patricia@epa.gov>  
**Cc:** Allnutt, David <Allnutt.David@epa.gov>; Vaughan, Molly <Vaughan.Molly@epa.gov>; Nogi, Jill <nogi.jill@epa.gov>; Hagerthey, Scot <Hagerthey.Scot@epa.gov>  
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|  |
|--|
| Other (please specify)   |
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Thanks-

Patty

**Patty McGrath | Mining Advisor**

U.S. Environmental Protection Agency, Region 10  
1200 Sixth Avenue, Seattle, WA 98101

M/S: RAD-202

Office: (206) 553-6113

Cell: (206) 743-7068

[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)

| ORD Regional Decision Support Request   |                          |
|---|--------------------------|
| <b>Initiating Region and Division</b><br>Region 10  | <b>Date</b><br>4/24/2018 |
| <b>Contact Information</b><br>Name: Patty McGrath<br>Phone Number: (206) 553-6113<br>Email: mcgrath.patricia@epa.gov  |                          |
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| <b>Project Milestones and Due Date</b><br>EPA scoping comments – 6/29/2018<br>Contributions to technical working groups<br>Draft EIS chapters – summer/fall 2018<br>Draft EIS comments – early 2019<br>Final EIS comments – end 2019/early 2020   |                          |

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Barbara Butler, Joe Ebersole, Jeff Frithsen, Michael Kravitz, Kate Schofield, Glenn Sutter, Jason Todd, Michael Griffith, Michael McManus, Caroline Ridley

**Regional Priority (To be completed by Regional Science Liaison – Bruce Duncan)**☐ High☐ Medium☐ Low

Message

---

**From:** McGrath, Patricia [mcgrath.patricia@epa.gov]  
**Sent:** 4/2/2018 8:03:24 PM  
**To:** Allnutt, David [Allnutt.David@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]  
**CC:** Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]  
**Subject:** BB website - EIS info  
**Attachments:** Pebble EIS Newsletter No. 1.pdf

Hi Molly, Jill, Tami, and David-

Suzanne and I talked briefly about adding a few sentences to EPA's Bristol Bay website about our role in the EIS process and a link to the Corps EIS website.

I think that will help direct folks that are used to looking to EPA for information to the Corps website, particularly now that scoping has begun.

Following is some suggested language. Please let me know if you agree that we should include this on our website and if you have any recommended edits to the language. I have also attached the Corps' Newsletter #1 that was recently posted, FYI.

-----

#### **Environmental Impact Statement Process**

The U.S. Army Corps of Engineers received a Department of Army permit application and project description from the Pebble Limited Partnership on December 22, 2017 and has determined that an EIS under the National Environmental Policy Act is needed before it makes a decision on the permit application. The Corps is the lead agency in managing the EIS process and developing the EIS. EPA is a cooperating agency in the EIS process, at the invitation of the Corps. The EIS is to evaluate potential impacts of the project on the physical, biological, and social environment. The Corps initiated public scoping of the EIS on April 1, 2018. Below is link to the Corps EIS website for more information and documents pertaining to the Department of Army permit application and EIS process.

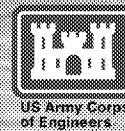
<https://www.pebbleprojecteis.com/#/>

#### **Patty McGrath | Mining Advisor**

U.S. Environmental Protection Agency, Region 10  
1200 Sixth Avenue, Seattle, WA 98101  
M/S: RAD-202  
Office: (206) 553-6113  
Cell: (206) 743-7068  
[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)

# Pebble Project EIS

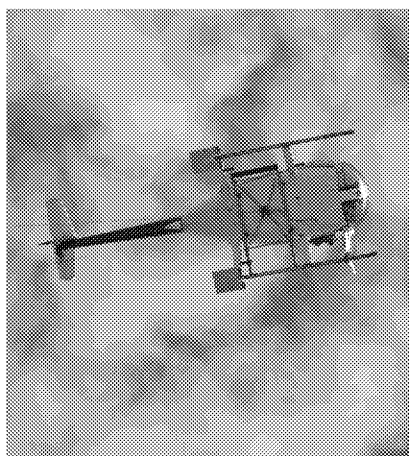
NEWSLETTER | April 2018 | [www.PebbleProjectEIS.com](http://www.PebbleProjectEIS.com)



## Scoping Notice

The U.S. Army Corps of Engineers (USACE) Alaska District is conducting an Environmental Impact Statement (EIS) level of analysis to evaluate Department of the Army permit application POA-2017-271 submitted by Pebble Limited Partnership (PLP). PLP's application states the purpose of discharges of dredged and/or fill material into jurisdictional waters of the United States is for the purpose of developing a copper-gold-molybdenum porphyry deposit as an open-pit mine, with associated infrastructure, in southwest Alaska. The EIS scoping period begins April 1 and ends April 30, 2018.

The scoping period provides opportunities for any person interested in the proposed project to share information that can help shape the scope of analysis of the EIS. This may include ideas for alternatives to the applicant's proposed action as identified in the permit application (publicly available at [pebbleprojecteis.com](http://pebbleprojecteis.com)) that could have lesser environmental impacts and identifying areas and/or issues of particular concern.



## SCOPING PROCESS BEGINS

### About PLP's Permit Application

PLP is proposing to develop the Pebble Deposit which is located under rolling, permafrost-free terrain in the Iliamna region of southwest Alaska, approximately 200 miles southwest of Anchorage and 60 miles west of Cook Inlet. The closest communities are the villages of Iliamna, Newhalen, and Nondalton, each approximately 17 miles from the Pebble Deposit. Portions of the proposed project lie within the Lake and Peninsula and Kenai Peninsula boroughs. Development of the Pebble Deposit would require federal permits from the USACE, The United States Coast Guard, and the Bureau of Safety and Environmental Enforcement for various aspects of the major project components. These three federal agencies are required to comply with the National Environmental Policy Act and thus will be using the EIS to inform their respective federal decisions. The major project components are briefly described here followed by an overview of the EIS process.

### Major Project Components

**Mine Site.** The fully developed Mine Site would include the open pit mine, a tailings storage facility, a low grade ore stockpile, overburden stockpiles, material sites, water management ponds, milling and processing facilities, and supporting infrastructure such as a power plant, water treatment plants, camp facilities, and fuel and material storage facilities.

**Transportation Corridor.** The Transportation Corridor would connect the Mine Site to the Amakdedori Port on the west side of Cook Inlet. It has three main components:

1. A private, double-lane road extending 30 miles south from the Mine Site to a ferry terminal on the north shore of Iliamna Lake.
2. An ice-breaking ferry to transport materials, equipment, and ore concentrates 18 miles across Iliamna Lake between ferry terminals on the north and south shores of the lake.
3. A private, double-lane road extending 35 miles southeast from the South Ferry Terminal near the community of Kokhanok, to the Amakdedori Port on the west side of Cook Inlet.

**Amakdedori Port.** The Amakdedori Port would be located near Amakdedori Creek on the western shore of Cook Inlet, approximately 190 miles southwest of Anchorage and approximately 95 miles southwest of Homer. It would include shore-based and marine facilities for the shipment of ore concentrates, freight, and fuel for the project. A 1300-foot earthen causeway with a 700-foot wharf would connect the port site with the docking facility. A 50-foot deep turning basin would be dredged adjacent to the docking facility, along with a 50-foot deep access channel. Other facilities would include fuel storage and transfer facilities, power generation and distribution facilities, maintenance facilities, employee accommodations, and offices.

[www.PebbleProjectEIS.com](http://www.PebbleProjectEIS.com)

**Natural Gas Pipeline.** Natural gas, sourced from the existing natural gas supply infrastructure for the Cook Inlet area, would supply power generation for the Pebble Project, and would require the construction of a 188-mile pipe. The gas pipeline alignment would connect to

existing infrastructure near Happy Valley on the Kenai Peninsula and travel south, paralleling the Sterling Highway for 9 miles to a compressor station near Anchor Point. From the compressor station, the pipeline would head southwest across Cook Inlet for 60 miles, before turning west for 35 miles to

a landfall at the Amakdedori Port. A second compressor station and offtake point would be located at the port site. The pipeline would then follow the transportation corridor from the port to the mine site, including crossing Iliamna Lake on the lakebed.

## ABOUT THE EIS

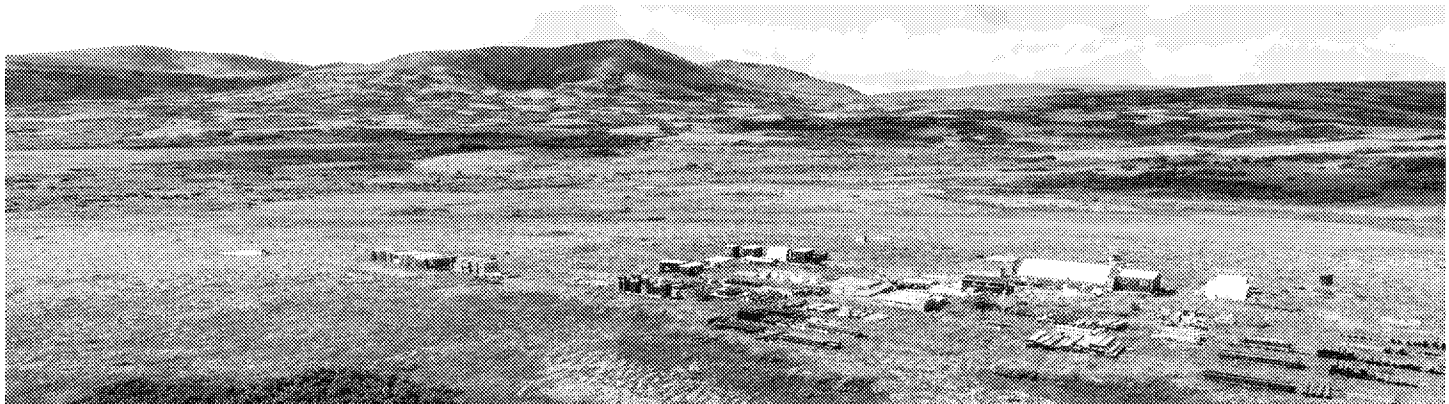


The USACE is serving as the lead federal agency for this EIS. The Bureau of Safety and Environment Enforcement and the United States Coast Guard have federal decision-making authority over portions of the applicant's proposed project and will serve as cooperating agencies. The U.S. Fish and Wildlife Service, Advisory Council on Historic Preservation, the State of Alaska (multiple divisions), the Lake and Peninsula Borough, the Pipeline and Hazardous Materials and Safety Administration, and the U.S. Environmental Protection Agency will serve as cooperating agencies to provide technical assistance for specifically identified special expertise. Thirty-five federally recognized tribal governments have been invited to participate directly through government-to-government consultation.

The EIS will identify potential impacts and potential benefits of the proposed project and reasonable alternatives on the physical, biological, and social environment from all phases of the project, including construction, operations, and post-closure. The EIS will also look at mitigation methods—ways in which potential negative impacts could be lessened. The USACE will use available scientific literature and subsequent data collected, alongside traditional knowledge and observations provided by the public.

We welcome your comments and information on the resources that are important to you. For example, many communities will be concerned about potential impacts to subsistence resources and land uses during project construction, operations, and closure. The EIS will address long-term cumulative effects, consider a reasonable range of alternatives, and analyze a range of practical mitigation and monitoring measures for protecting public health, water quality, wildlife, and subsistence resources.





## Participate!

All interested parties are invited to participate in the EIS process. The goals of the public scoping process are to:

- Gather comments and suggestions from interested parties to help determine issues and concerns that are relevant to the analysis of potential impacts
- Help define a reasonable range of alternatives to evaluate in the EIS
- Capture information that will lead to the development of good mitigation and monitoring measures

## Public Scoping Meetings

USACE has chosen to conduct scoping in multiple ways including scoping meetings in addition to our newsletters, website, and other communication methods. The scoping schedule includes meetings across the project area, as well as in Anchorage and Homer. The public meeting schedule is listed below.

| COMMUNITY   | DATE AND TIME           | LOCATION           |
|-------------|-------------------------|--------------------|
| Naknek      | April 9, 2018, 3:30 pm  | Naknek School      |
| Kokhanok    | April 10, 2018, 3:30 pm | Tribal Hall        |
| Homer*      | April 11, 2018, 5:30 pm | High School        |
| Newhalen    | April 12, 2018, 3:30 pm | Newhalen School    |
| Nondalton   | April 16, 2018, 3:30 pm | Tribal Center      |
| Dillingham* | April 17, 2018, 5:00 pm | Middle School      |
| Iguigig     | April 18, 2018, 3:30 pm | Community Building |
| Anchorage*  | April 19, 2018, 5:00 pm | Dena'ina Center    |

*\*To avoid long wait times, a hot mic format will not be used.*

## TO PARTICIPATE...

Providing ample opportunities for the public to submit scoping comments on the Pebble Project EIS is of utmost importance to the USACE. Come to scoping meetings and share your thoughts regarding project impacts and benefits and ideas for alternatives. Give your comment orally to a dedicated court reporter, or electronically submit using one of a number of dedicated laptop computers. You can also bring written comments to a meeting, use the comment form on the project website ([www.PebbleProjectEIS.com](http://www.PebbleProjectEIS.com)), or send them to:

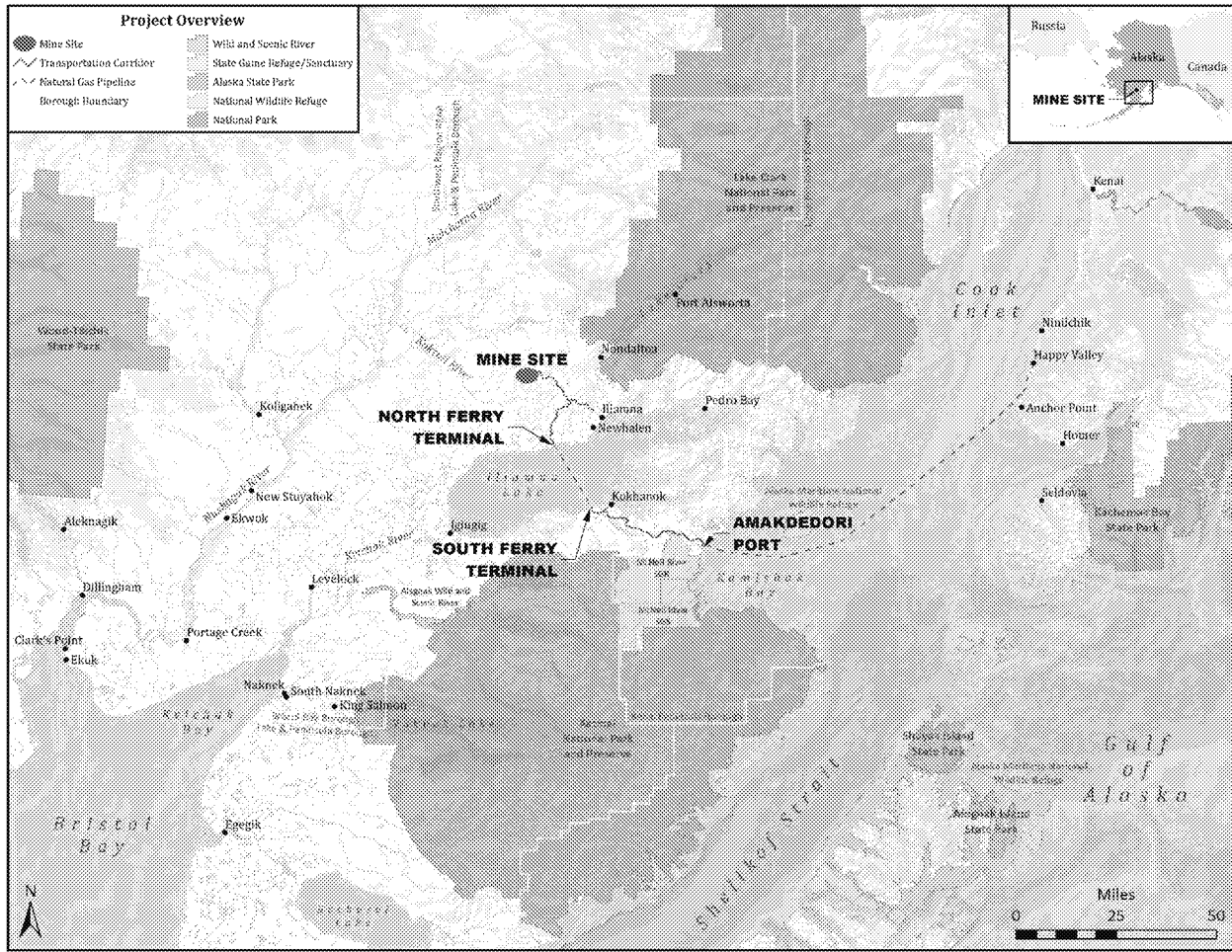
Program Manager, Regulatory Division  
 US Army Corps of Engineers  
 PO Box 6898  
 Joint Base Elmendorf Richardson,  
 AK 99506-0898

## Let us know what aspects of the proposed project are important to you!

Written scoping comments can be submitted through April 30, 2018.

Comments received/postmarked after April 30 will be considered, but may not be included in the scoping report.

Comments will be reviewed and incorporated into the Draft EIS, as appropriate



Program Manager  
 Regulatory Division  
 US Army Corps of Engineers  
 PO Box 6898  
 Joint Base Elmendorf Richardson AK 99506-0898



Message

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**From:** Allnutt, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6E28F5BF9CBF4B8B9EDA7751C2F10750-ALLNUTT, DAVID]  
**Sent:** 6/7/2018 1:21:52 AM  
**To:** Palomaki, Ashley [Palomaki.Ashley@epa.gov]  
**CC:** Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]  
**Subject:** Re: RA drop in

Just heard from Patty who spoke with James Fugh. Meeting is purely a “courtesy call” and no one is accompanying Collier.

Sent from my iPhone

On Jun 6, 2018, at 4:50 PM, Palomaki, Ashley <[Palomaki.Ashley@epa.gov](mailto:Palomaki.Ashley@epa.gov)> wrote:

Checked in with Pam and she hasn't heard back from PLP's executive assistant on this yet. She'll call again in the morning.

Cara – Just FYI - meeting is at 2pm in the event one of us should go.

**Ashley Palomaki**  
Assistant Regional Counsel  
U.S. EPA Region 10 Office of Regional Counsel  
1200 Sixth Avenue, Suite 155, ORC-113  
Seattle, WA 98101  
206-553-8582

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**From:** Allnutt, David  
**Sent:** Tuesday, June 05, 2018 1:22 PM  
**To:** Gahner, Pamela <[gahner.pamela@epa.gov](mailto:gahner.pamela@epa.gov)>  
**Cc:** Steiner-Riley, Cara <[Steiner-Riley.Cara@epa.gov](mailto:Steiner-Riley.Cara@epa.gov)>; Palomaki, Ashley <[Palomaki.Ashley@epa.gov](mailto:Palomaki.Ashley@epa.gov)>  
**Subject:** RE: RA drop in

Pam – could you check with the Pebble POC? I'm primarily attempting to determine whether ORC should be included.

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<image001.png>  
<image002.png> <image003.png> <image004.png>

**R. David Allnutt**, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581

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**From:** Gahner, Pamela  
**Sent:** Tuesday, June 05, 2018 1:03 PM

**To:** Allnutt, David <Allnutt.David@epa.gov>

**Subject:** RE: RA drop in

I do not know of anyone else accompanying him.

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**From:** Allnutt, David

**Sent:** Tuesday, June 5, 2018 12:58 PM

**To:** Gahner, Pamela <gahner.pamela@epa.gov>

**Subject:** RE: RA drop in

Yes – I knew it was me and Chris on the EPA side. My question was whether anyone would be accompanying Tom on behalf of Pebble.

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<image001.png>  
<image002.png> <image003.png> <image005.png>

**R. David Allnutt**, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581

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**From:** Gahner, Pamela

**Sent:** Tuesday, June 05, 2018 12:21 PM

**To:** Allnutt, David <Allnutt.David@epa.gov>

**Subject:** FW: RA drop in

Hi David,

Sorry I missed you. Thursday meeting is with Tom Collier from Pebble, Chris and you. Michelle Pirzadeh is the one who said I should add you to the invite. I know Tom is in Seattle attending other meetings and I do not know if anyone else is accompanying him. If there's someone else, EPA, I should invite please let me know.

Pam  
X2598

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**From:** Fraser, Michelle

**Sent:** Tuesday, June 5, 2018 11:46 AM

**To:** Gahner, Pamela <gahner.pamela@epa.gov>

**Subject:** RA drop in

Hi Pam,

David Allnut stopped by wanting to check in regarding Chris' meeting on Thursday with the Pebble Limited Partnership. He specifically wanted to know who all was on the invite.

Thanks,

Michelle Fraser

Office of Compliance and Enforcement  
(206) 553-4269  
[fraser.michelle@epa.gov](mailto:fraser.michelle@epa.gov)

EPA Region 10  
1200 Sixth Avenue  
Suite 155, M/S: OCE-101  
Seattle, WA 98101-3188

Message

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**From:** Allnutt, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6E28F5BF9CBF4B8B9EDA7751C2F10750-ALLNUTT, DAVID]  
**Sent:** 10/22/2018 11:27:03 PM  
**To:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Subject:** RE: Bristol Bay Check-in

Erik – I'm going to be travelling to the lab tomorrow morning and will call into this from the road.



**R. David Allnutt**, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581

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-----Original Appointment-----

**From:** Peterson, Erik  
**Sent:** Monday, October 22, 2018 3:38 PM  
**To:** Fordham, Tami; Allnutt, David; Anderson-Carnahan, Linda; McGrath, Patricia; Palomaki, Ashley; Steiner-Riley, Cara; Lindsay, Andrea; Skadowski, Suzanne; Nogi, Jill; Douglas, Mark; Vaughan, Molly; Hough, Palmer; Nalven, Heidi; Stern, Allyn  
**Cc:** Detwiler, Susan K.; Chu, Rebecca  
**Subject:** Bristol Bay Check-in  
**When:** Tuesday, October 23, 2018 9:00 AM-10:00 AM (UTC-08:00) Pacific Time (US & Canada).  
**Where:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Agenda**

NEPA Review

FOIA – E&E News

→ **Join by Phone**

**Conference Line/Code / Ex. 6**

→ **Meeting Organizer**

Erik Peterson, USEPA (206) 553-6382 office

Message

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**From:** Allnutt, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6E28F5BF9CBF4B8B9EDA7751C2F10750-ALLNUTT, DAVID]  
**Sent:** 5/15/2018 11:31:24 PM  
**To:** Mendelman, Krista [Mendelman.Krista@epa.gov]  
**Subject:** RE: Pebble hand off

Thanks – I've let the two Pebble team leads know (Patty and Erik). We should give some thought to whether Mark should be on the regional mining team.



R. David Allnutt, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581

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**From:** Mendelman, Krista  
**Sent:** Tuesday, May 15, 2018 12:05 PM  
**To:** Allnutt, David <Allnutt.David@epa.gov>; Anderson-Carnahan, Linda <Anderson-Carnahan.Linda@epa.gov>  
**Cc:** Douglas, Mark <douglas.mark@epa.gov>; LaCroix, Matthew <LaCroix.Matthew@epa.gov>; Thiesing, Mary <Thiesing.Mary@epa.gov>; Szerlog, Michael <Szerlog.Michael@epa.gov>  
**Subject:** Pebble hand off

Hi David and Linda,

Mark Douglas has bravely stepped forward to be the lead on Pebble taking over for Matt. There will obviously be a transition between Matt and Mark with Mary Anne supporting Mark through a team approach. This is something that Michael S and I have discussed and Michael is supportive.

Krista

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Krista Mendelman  
US EPA Region 10 MS:OWW-193  
1200 6<sup>th</sup> Ave. Suite 900  
Seattle WA 98101  
206-553-1571

Message

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**From:** Allnutt, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6E28F5BF9CBF4B8B9EDA7751C2F10750-ALLNUTT, DAVID]  
**Sent:** 5/2/2018 3:47:20 PM  
**To:** Holsman, Marianne [Holsman.Marianne@epa.gov]  
**Subject:** RE: Need your help: Chris speaks to Northwest Environmental Business Council next Thursday. Need some bits of content from you

Marianne – here are some thoughts on (1) the bullet relevant to my program in the draft remarks; and (2) the NEBC question below:

**Deliberative Process / Ex. 5**

**Deliberative Process / Ex. 5**



**R. David Allnutt**, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581

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**From:** Holsman, Marianne  
**Sent:** Tuesday, May 01, 2018 10:03 AM  
**To:** Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov>; Opalski, Dan <Opalski.Dan@epa.gov>; Allnutt, David <Allnutt.David@epa.gov>; Bilbrey, Sheryl <Bilbrey.Sheryl@epa.gov>; Kowalski, Edward <Kowalski.Edward@epa.gov>; Wilson, Wenona <Wilson.Wenona@epa.gov>; Hamlin, Tim <Hamlin.Tim@epa.gov>

**Subject:** Need your help: Chris speaks to Northwest Environmental Business Council next Thursday. Need some bits of content from you

**Importance:** High

Hello Folks:

You may have heard that Chris is scheduled to speak to the Cascade Chapter of the Northwest Environmental Business Council next Thursday at the WAC. This will be his first time talking with this group. Dennis spoke with them several times.

We've agreed with the organizers that this will be a somewhat informal and a chance for Chris to introduce himself to the group and for them to tell him about their organization, what their members are working on, etc. More of a dialogue, than a long speech. I'm shooting for 15 mins. for his remarks.

I've attached a draft of his remarks. It's written in more the style I've seen Chris speak – less formally, more conversational.

We want him to spend a few minutes on his current priorities. **This is where you come in.** On pages four and five in the attachment I have a list of priorities and a few words on each. I need you to help me put a bit more meat into this content with two – three sentences max. about Chris'/our focus on these topics in the near term. Should be easy, I think. ***If you could just send me an email with your suggested text for the bullets relevant to your program, that would be great. If you could send them to me by COB Thursday, I will then get a final draft ready for Chris' review Monday.***

Michelle, I need your overall "once over" plus a close look at the section on internal stuff...If you prefer to mark up a hard copy, Michelle, I can make your edits on Monday.

Also, below I need David and Sheryl to help provide some fodder for the questions/topics suggested by the NEBC members (one on Pebble and one on Portland Harbor/Duwamish lessons learned). We need to give Chris some suggestions for those two (bolded at the end of the list below). Again, an email with your contributions would be best and I'll plug them in.

Thanks all!

**Topics NEBC members are interested in:**

- Policy as driver for environmental business.
- Insights and thoughts on the future of EPA.
- Modernization of EPA. Perception is that it's an antiquated bureaucracy.
- Region 10 environmental issues / priorities.
- Pebble Mine / Mining – can we mine copper and "rare earth" elements responsibly?**
- Lessons learned from Portland Harbor applied to Duwamish Cleanup.**

Message

**From:** Allnutt, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6E28F5BF9CBF4B8B9EDA7751C2F10750-ALLNUTT, DAVID]  
**Sent:** 5/2/2018 3:35:01 PM  
**To:** Mendelman, Krista [Mendelman.Krista@epa.gov]  
**Subject:** RE: GMT 2

## Non-Responsive – Material Unrelated to Bristol Bay/Pebble Mine



R. David Allnutt, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581

**From:** Mendelman, Krista  
**Sent:** Tuesday, May 01, 2018 7:39 PM  
**To:** Allnutt, David <Allnutt.David@epa.gov>  
**Subject:** FW: GMT 2

Hi David,

## Non-Responsive – Material Unrelated to Bristol Bay/Pebble Mine

Krista

Krista Mendelman  
US EPA Region 10 MS:OWW-193  
1200 6<sup>th</sup> Ave. Suite 900  
Seattle WA 98101  
206-553-1571

**From:** LaCroix, Matthew  
**Sent:** Tuesday, May 01, 2018 7:07 PM  
**To:** Mendelman, Krista <Mendelman.Krista@epa.gov>  
**Subject:** RE: GMT 2?

Krista,

## Non-Responsive – Material Unrelated to Bristol Bay/Pebble Mine



## **Non-Responsive – Material Unrelated to Bristol Bay/Pebble Mine**

The internal deadline for our draft Pebble scoping comments is tomorrow. And the deadline for feedback on the North Slope Permitting Initiative options paper is today. Every project has its day.

## **Non-Responsive – Material Unrelated to Bristol Bay/Pebble Mine**

Thanks,

Matthew LaCroix, Biologist  
Aquatic Resources Unit  
Office of Environmental Review and Assessment  
Alaska Operations Office  
222 W. 7<sup>th</sup> Ave. #19  
Anchorage, AK 99513  
(907) 271-1480

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**From:** Mendelman, Krista

**Sent:** Tuesday, May 01, 2018 5:11 PM

**To:** LaCroix, Matthew <[LaCroix.Matthew@epa.gov](mailto:LaCroix.Matthew@epa.gov)>; Douglas, Mark <[douglas.mark@epa.gov](mailto:douglas.mark@epa.gov)>

**Subject:** GMT 2?

Gentlemen,

## **Non-Responsive – Material Unrelated to Bristol Bay/Pebble Mine**

Thanks for your help.

Krista

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Krista Mendelman  
US EPA Region 10 MS:OWW-193  
1200 6<sup>th</sup> Ave. Suite 900  
Seattle WA 98101  
206-553-1571

Message

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**From:** Allnutt, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6E28F5BF9CBF4B8B9EDA7751C2F10750-ALLNUTT, DAVID]  
**Sent:** 6/27/2018 4:44:33 PM  
**To:** Tomiak, Robert [tomiaak.robert@epa.gov]  
**Subject:** RE: Pebble letter

Yes – this is different from the version you sent me yesterday, but appears merely to reflect OGC/ORC staff's replies to David's and Justin's comments of a couple of weeks ago. I guess the question remains, are we done yet?



R. David Allnutt, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581

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**From:** Tomiak, Robert  
**Sent:** Wednesday, June 27, 2018 9:39 AM  
**To:** Allnutt, David <Allnutt.David@epa.gov>  
**Subject:** FW: Pebble letter

Is this version different from what I sent previously?

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**From:** Nalven, Heidi  
**Sent:** Wednesday, June 27, 2018 10:08 AM  
**To:** Marshall, Tom <marshall.tom@epa.gov>; Knight, Kelly <knight.kelly@epa.gov>  
**Cc:** Hoppe, Allison <hoppe.allison@epa.gov>; Tomiak, Robert <tomiaak.robert@epa.gov>; Wehling, Carrie <Wehling.Carrie@epa.gov>  
**Subject:** RE: Pebble letter

Attached is a version with edits from OGC political management and with responses from attorneys from CCILO and WLO. We are still waiting for feedback on the responses and final OGC political management edits.

**Heidi Nalven**  
U.S. EPA Office of General Counsel  
202-564-3189

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**From:** Marshall, Tom  
**Sent:** Wednesday, June 27, 2018 9:03 AM  
**To:** Knight, Kelly <knight.kelly@epa.gov>  
**Cc:** Hoppe, Allison <hoppe.allison@epa.gov>; Tomiak, Robert <tomiaak.robert@epa.gov>; Nalven, Heidi <Nalven.Heidi@epa.gov>; Wehling, Carrie <Wehling.Carrie@epa.gov>  
**Subject:** Re: Pebble letter

Great. Thx.

Sent from my iPhone

On Jun 27, 2018, at 9:02 AM, Knight, Kelly <[knight.kelly@epa.gov](mailto:knight.kelly@epa.gov)> wrote:

11:00?

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**From:** Marshall, Tom

**Sent:** Wednesday, June 27, 2018 8:55 AM

**To:** Knight, Kelly <[knight.kelly@epa.gov](mailto:knight.kelly@epa.gov)>

**Cc:** Hoppe, Allison <[hoppe.allison@epa.gov](mailto:hoppe.allison@epa.gov)>; Tomiak, Robert <[tomiak.robert@epa.gov](mailto:tomiak.robert@epa.gov)>; Nalven, Heidi <[Nalven.Heidi@epa.gov](mailto:Nalven.Heidi@epa.gov)>; Wehling, Carrie <[Wehling.Carrie@epa.gov](mailto:Wehling.Carrie@epa.gov)>

**Subject:** Re: Pebble letter

Any flexibility on the timing here, so we can coordinate internally? Thanks.

Sent from my iPhone

On Jun 27, 2018, at 7:09 AM, Knight, Kelly <[knight.kelly@epa.gov](mailto:knight.kelly@epa.gov)> wrote:

Good Morning –

Rob needs OGC's comments to share with Drew by 9am. Is that possible?

Thanks

Kelly Knight  
Director, NEPA Compliance Division  
Environmental Protection Agency  
202-564-2141 (office)  
202-594-6391 (cell)

Message

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**From:** Allnutt, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6E28F5BF9CBF4B8B9EDA7751C2F10750-ALLNUTT, DAVID]  
**Sent:** 6/27/2018 4:34:53 PM  
**To:** Tomiak, Robert [tomiak.robert@epa.gov]  
**Subject:** FW: Most recent letter with HQ comments  
**Attachments:** Pebble Project Scoping 060518 draft HQ Review.docx

Rob – we’ve already incorporated the HQ comments reflected in this mark-up. Is there another version floating around that has edits from David F. and Justin Schwab?



**R. David Allnutt**, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581

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**From:** Tomiak, Robert  
**Sent:** Wednesday, June 27, 2018 8:53 AM  
**To:** Allnutt, David <Allnutt.David@epa.gov>  
**Subject:** FW: Most recent letter with HQ comments

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**From:** Knight, Kelly  
**Sent:** Wednesday, June 27, 2018 11:14 AM  
**To:** Tomiak, Robert <tomiak.robert@epa.gov>; Feeley, Drew (Robert) <Feeley.Drew@epa.gov>  
**Subject:** FW: Most recent letter with HQ comments

This is the most recent version with HQ comments.

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**From:** Barnhart, Megan  
**Sent:** Wednesday, June 27, 2018 10:46 AM  
**To:** Knight, Kelly <knight.kelly@epa.gov>  
**Subject:** Most recent letter with HQ comments

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Megan Barnhart  
U.S. Environmental Protection Agency  
Office of Federal Activities, NEPA Compliance Division  
William Jefferson Clinton Building  
1200 Pennsylvania Avenue, N.W.  
Washington, DC 20460  
Phone: 202-564-5936



Message

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**From:** Allnutt, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6E28F5BF9CBF4B8B9EDA7751C2F10750-ALLNUTT, DAVID]  
**Sent:** 6/27/2018 4:33:19 PM  
**To:** Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]  
**CC:** Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]  
**Subject:** RE: Most recent letter with HQ comments

It appears that way. Am following up with Rob.



**R. David Allnutt**, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581

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**From:** Palomaki, Ashley  
**Sent:** Wednesday, June 27, 2018 9:31 AM  
**To:** Allnutt, David <Allnutt.David@epa.gov>; Stern, Allyn <Stern.Allyn@epa.gov>  
**Cc:** Steiner-Riley, Cara <Steiner-Riley.Cara@epa.gov>; Vaughan, Molly <Vaughan.Molly@epa.gov>; Nogi, Jill <nogi.jill@epa.gov>; McGrath, Patricia <mcgrath.patricia@epa.gov>  
**Subject:** RE: Most recent letter with HQ comments

Are we sure that this has OGC comments? I think this might be the OFA version before it went to David F. and Justin.

**Ashley Palomaki**  
Assistant Regional Counsel  
U.S. EPA Region 10 Office of Regional Counsel  
1200 Sixth Avenue, Suite 155, ORC-113  
Seattle, WA 98101  
206-553-8582

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**From:** Allnutt, David  
**Sent:** Wednesday, June 27, 2018 9:19 AM  
**To:** Stern, Allyn <Stern.Allyn@epa.gov>  
**Cc:** Steiner-Riley, Cara <Steiner-Riley.Cara@epa.gov>; Palomaki, Ashley <Palomaki.Ashley@epa.gov>; Vaughan, Molly <Vaughan.Molly@epa.gov>; Nogi, Jill <nogi.jill@epa.gov>; McGrath, Patricia <mcgrath.patricia@epa.gov>  
**Subject:** FW: Most recent letter with HQ comments

OGC's current (final?) comments. Not sure who in the region, if anyone has seen this. Rob is discussing with OP's politicals later this morning and will be calling me back. Let's not do anything with these edits until those conversations have occurred.

And I would be remiss if I did not point out the following sentence from Administrator Pruitt's memo of yesterday on the 404(c) process:

"I believe that it is critical for the agency to participate in the EIS process [for the Pebble project] and review the final EIS in detail before determining whether to proceed with the section 404(c) process in this case."



**R. David Allnutt**, Director  
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**From:** Tomiak, Robert  
**Sent:** Wednesday, June 27, 2018 8:53 AM  
**To:** Allnutt, David <[Allnutt.David@epa.gov](mailto:Allnutt.David@epa.gov)>  
**Subject:** FW: Most recent letter with HQ comments

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**From:** Knight, Kelly  
**Sent:** Wednesday, June 27, 2018 11:14 AM  
**To:** Tomiak, Robert <[tomiak.robert@epa.gov](mailto:tomiak.robert@epa.gov)>; Feeley, Drew (Robert) <[Feeley.Drew@epa.gov](mailto:Feeley.Drew@epa.gov)>  
**Subject:** FW: Most recent letter with HQ comments

This is the most recent version with HQ comments.

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**From:** Barnhart, Megan  
**Sent:** Wednesday, June 27, 2018 10:46 AM  
**To:** Knight, Kelly <[knight.kelly@epa.gov](mailto:knight.kelly@epa.gov)>  
**Subject:** Most recent letter with HQ comments

.....  
Megan Barnhart  
U.S. Environmental Protection Agency  
Office of Federal Activities, NEPA Compliance Division  
William Jefferson Clinton Building  
1200 Pennsylvania Avenue, N.W.  
Washington, DC 20460  
Phone: 202-564-5936

Message

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**From:** Allnutt, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6E28F5BF9CBF4B8B9EDA7751C2F10750-ALLNUTT, DAVID]  
**Sent:** 5/8/2018 9:02:18 PM  
**To:** Nogi, Jill [nogi.jill@epa.gov]  
**Subject:** RE: TCTO and other updates

See below --



**R. David Allnutt**, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581

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**From:** Nogi, Jill  
**Sent:** Tuesday, May 08, 2018 1:48 PM  
**To:** Allnutt, David <Allnutt.David@epa.gov>  
**Subject:** TCTO and other updates

**Non-Responsive – Material Unrelated to Bristol Bay/Pebble Mine**



If Chris really doesn't get comments to Molly today on Pebble, I think we have to move forward with what we have and keep to the schedule. **Personal Matters / Ex. 6** and the letter is supposed to be with Patty. Molly mentioned that she's coming to Seattle next week (for Tribal I guess?) and is giving Ashley a few days to review before it comes to me around the end of next week.

■ Sounds good.

Talk with you tomorrow – feel free to let me know if there's anything you would do differently related to these couple of updates. Thanks! Jill

Message

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**From:** Allnutt, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6E28F5BF9CBF4B8B9EDA7751C2F10750-ALLNUTT, DAVID]  
**Sent:** 6/11/2018 5:57:23 PM  
**To:** Thiesing, Mary [Thiesing.Mary@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; LaCroix, Matthew [LaCroix.Matthew@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]  
**CC:** Douglas, Mark [douglas.mark@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]  
**Subject:** RE: field verification visit

Patty – not sure whether I replied to this earlier, but would support Mark attending, particularly if ARE can fund.



**R. David Allnutt**, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581

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**From:** Thiesing, Mary  
**Sent:** Monday, June 11, 2018 9:54 AM  
**To:** McGrath, Patricia <mcgrath.patricia@epa.gov>; LaCroix, Matthew <LaCroix.Matthew@epa.gov>; Mendelman, Krista <Mendelman.Krista@epa.gov>; Allnutt, David <Allnutt.David@epa.gov>  
**Cc:** Douglas, Mark <douglas.mark@epa.gov>; Fordham, Tami <Fordham.Tami@epa.gov>  
**Subject:** RE: field verification visit

Patty,

I think it would be very useful for Mark to go on this trip, if there are funds to support it. He will be the 404 program person responsible for helping to bring this EIS and associated permit process to completion, so it would be useful for those purposes to have eyes on the ground. We typically do go when the Corps invites us on wetland/aquatic resource delineation visits, and since there is a different footprint proposed than any of the pre-app footprints or the footprints proposed by Pebble in their SEC filing, I think it becomes even more important for our evaluation, comments and the record to be informed about what is on the ground.

Mary Anne

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**From:** McGrath, Patricia  
**Sent:** Thursday, June 07, 2018 1:50 PM  
**To:** LaCroix, Matthew <LaCroix.Matthew@epa.gov>; Mendelman, Krista <Mendelman.Krista@epa.gov>; Allnutt, David <Allnutt.David@epa.gov>; Thiesing, Mary <Thiesing.Mary@epa.gov>  
**Cc:** Douglas, Mark <douglas.mark@epa.gov>; Fordham, Tami <Fordham.Tami@epa.gov>  
**Subject:** field verification visit

All-

Mark and I are seeking your advice on whether Mark should participate in the field verification visit with the USACE at the Pebble site. The trip is scheduled for July 9 – 11.

During the previous agency meetings we had discussed our possible interest in this trip, but were notified only yesterday of the dates. The flight to Iliamna on July 9 is full, so if Mark does go he will need to travel a day early or later.

I did not see that Matt had included this trip in ARE travel, though it looks like we do have the funds to cover it.

I am planning a separate overview visit for some of the NEPA team that would benefit and have not previously been to the site.

I see this as an ARU decision as field verification would be to support the 404 delineations. Would we typically participate in a verification site visit? Please let Mark and I know if he should plan for this trip. We would need to initiate planning asap.

Thanks -Patty

**Patty McGrath | Mining Advisor**

U.S. Environmental Protection Agency, Region 10

1200 Sixth Avenue, Seattle, WA 98101

M/S: RAD-202

Office: (206) 553-6113

Cell: (206) 743-7068

[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)

Message

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**From:** Allnutt, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6E28F5BF9CBF4B8B9EDA7751C2F10750-ALLNUTT, DAVID]  
**Sent:** 6/7/2018 5:57:49 PM  
**To:** Palomaki, Ashley [Palomaki.Ashley@epa.gov]  
**CC:** Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]  
**Subject:** RE: RA drop in

I will take notes using the template (thanks for sending) and send to you and Erik for safe keeping, sharing.



**R. David Allnutt**, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581

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**From:** Palomaki, Ashley  
**Sent:** Thursday, June 07, 2018 10:36 AM  
**To:** Allnutt, David <Allnutt.David@epa.gov>  
**Cc:** Steiner-Riley, Cara <Steiner-Riley.Cara@epa.gov>  
**Subject:** RE: RA drop in

Okay – can you take notes? Or have someone else take them?

We have just been taking hand-written notes and then filling in the templates afterwards. The templates are the same, but there is one on the 404c sharepoint and one on the NEPA sharepoint, in part b/c there isn't complete overlap between the teams. If the meeting ends up clearly being for both, we can just put it both places:

# Internal Website/ Ex. 6

**Ashley Palomaki**  
Assistant Regional Counsel  
U.S. EPA Region 10 Office of Regional Counsel  
1200 Sixth Avenue, Suite 155, ORC-113  
Seattle, WA 98101  
206-553-8582

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**From:** Allnutt, David  
**Sent:** Wednesday, June 06, 2018 6:22 PM  
**To:** Palomaki, Ashley <Palomaki.Ashley@epa.gov>  
**Cc:** Steiner-Riley, Cara <Steiner-Riley.Cara@epa.gov>  
**Subject:** Re: RA drop in

Just heard from Patty who spoke with James Fugh. Meeting is purely a "courtesy call" and no one is accompanying Collier.

Sent from my iPhone

On Jun 6, 2018, at 4:50 PM, Palomaki, Ashley <Palomaki.Ashley@epa.gov> wrote:

Checked in with Pam and she hasn't heard back from PLP's executive assistant on this yet. She'll call again in the morning.

Cara – Just FYI - meeting is at 2pm in the event one of us should go.

**Ashley Palomaki**  
Assistant Regional Counsel  
U.S. EPA Region 10 Office of Regional Counsel  
1200 Sixth Avenue, Suite 155, ORC-113  
Seattle, WA 98101  
206-553-8582

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**From:** Allnutt, David  
**Sent:** Tuesday, June 05, 2018 1:22 PM  
**To:** Gahner, Pamela <gahner.pamela@epa.gov>  
**Cc:** Steiner-Riley, Cara <Steiner-Riley.Cara@epa.gov>; Palomaki, Ashley <Palomaki.Ashley@epa.gov>  
**Subject:** RE: RA drop in

Pam – could you check with the Pebble POC? I'm primarily attempting to determine whether ORC should be included.

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<image001.png>  
<image002.png> <image003.png> <image004.png>

**R. David Allnutt**, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
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**From:** Gahner, Pamela  
**Sent:** Tuesday, June 05, 2018 1:03 PM  
**To:** Allnutt, David <Allnutt.David@epa.gov>  
**Subject:** RE: RA drop in

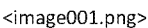
I do not know of anyone else accompanying him.

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**From:** Allnutt, David  
**Sent:** Tuesday, June 5, 2018 12:58 PM  
**To:** Gahner, Pamela <[gahner.pamela@epa.gov](mailto:gahner.pamela@epa.gov)>  
**Subject:** RE: RA drop in

Yes – I knew it was me and Chris on the EPA side. My question was whether anyone would be accompanying Tom on behalf of Pebble.

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|   |  |
|---|--|
| <br><image002.png> <image003.png> <image005.png> | <b>R. David Allnutt</b> , Director<br>Office of Environmental Review and Assessment<br>U.S. EPA, Region 10<br>1200 Sixth Avenue, Suite 155<br>Seattle, Washington 98101-3140<br>(206) 553-2581 |
|---|--|

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**From:** Gahner, Pamela  
**Sent:** Tuesday, June 05, 2018 12:21 PM  
**To:** Allnutt, David <[Allnutt.David@epa.gov](mailto:Allnutt.David@epa.gov)>  
**Subject:** FW: RA drop in

Hi David,  
Sorry I missed you. Thursday meeting is with Tom Collier from Pebble, Chris and you. Michelle Pirzadeh is the one who said I should add you to the invite. I know Tom is in Seattle attending other meetings and I do not know if anyone else is accompanying him. If there's someone else, EPA, I should invite please let me know.

Pam  
X2598

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**From:** Fraser, Michelle  
**Sent:** Tuesday, June 5, 2018 11:46 AM  
**To:** Gahner, Pamela <[gahner.pamela@epa.gov](mailto:gahner.pamela@epa.gov)>  
**Subject:** RA drop in

Hi Pam,

David Allnut stopped by wanting to check in regarding Chris' meeting on Thursday with the Pebble Limited Partnership. He specifically wanted to know who all was on the invite.

Thanks,

Michelle Fraser  
Office of Compliance and Enforcement  
(206) 553-4269  
[fraser.michelle@epa.gov](mailto:fraser.michelle@epa.gov)

EPA Region 10  
1200 Sixth Avenue  
Suite 155, M/S: OCE-101  
Seattle, WA 98101-3188



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 10**

1200 Sixth Avenue, Suite 155  
Seattle, WA 98101-3140

OFFICE OF  
ENVIRONMENTAL REVIEW  
AND ASSESSMENT

June 29, 2018

Mr. Shane McCoy, Project Manager  
U.S. Army Corps of Engineers  
Regulatory Division  
P.O. Box 6898  
JBER, Alaska 99506-0898

Dear Mr. McCoy:

The U.S. Environmental Protection Agency has reviewed the U.S. Army Corps of Engineers' March 29, 2018, Notice of Intent initiating the scoping process for the proposed Pebble Project Environmental Impact Statement development (EPA Region 10 Project Number 18-0002-COE). We have also reviewed the additional project information available on the Corps website. The EPA is providing comments for your consideration pursuant to the National Environmental Policy Act, Council on Environmental Quality regulations (40 C.F.R. §§ 1500-1508) and Section 309 of the Clean Air Act. The EPA is also supporting the Corps in EIS development as a cooperating agency, due to our special expertise. We appreciate the opportunity to provide early input in the analysis of the Pebble Project.

The Pebble Limited Partnership (PLP) is proposing to develop the Pebble deposit in southwest Alaska, containing copper, gold, and molybdenum. The proposed project includes an open-pit mine, tailings storage facility, a low-grade ore stockpile, an overburden stockpile, a mill facility, a natural gas-fired power plant, and other mine site facilities. The anticipated throughput at the mill facility is 160,000 tons of ore per day, and the proposed mine operating life is 20 years. The proposed project also includes development of a 188-mile natural gas pipeline across Cook Inlet and Lake Iliamna and two compressor stations used to transport natural gas from the Kenai Peninsula to the mine site. The proposed transportation network includes 65 miles of roads, ferry terminals on the north and south shores of Lake Iliamna for use by an ice-breaking ferry, and the Amakdedori Port on Cook Inlet (including dredging and disposal of up to 20 million cubic yards of dredged material).

The scoping comments that follow are provided to inform the Corps of issues the EPA believes are significant and warrant explicit treatment in the EIS, based on current information. Overall, the EPA encourages the development of an EIS that evaluates and compares a full range of reasonable alternatives and comprehensively discusses the reasonably foreseeable direct, indirect, and cumulative impacts of the proposed action.

The EPA has significant concerns regarding the potential impacts of mining activities near the world-class fisheries of the Bristol Bay Watershed.<sup>1</sup> Many of these concerns have been previously documented in the EPA's 2014 Bristol Bay Watershed Assessment, which evaluated the potential impacts of large-scale mining on the region's fish resources, and in the Agency's 2014 Proposed Determination under

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<sup>1</sup> See <https://www.epa.gov/bristolbay> for more information.



Section 404 of the Clean Water Act. This Proposed Determination proposed restrictions on the discharge of dredged or fill material to waters of the U.S. to protect waters that support fishery areas in and near the Pebble deposit area. Because the Watershed Assessment and the Proposed Determination were completed before PLP submitted its permit application to the Corps, these assessments did not consider and were not based on the specific parameters of PLP's pending proposal. The EIS should thoroughly analyze the potential impacts of PLP's proposal to aquatic and other resources, including the anticipated direct impacts of the proposed action, and the reasonably foreseeable indirect and cumulative impacts. We note that the geographic extent of the proposed project infrastructure is not limited to the Bristol Bay watershed, and we recommend that the EIS analyze all areas of impact from the project, including Cook Inlet.

We appreciate the information provided in the Corps' scoping package, including the list of resources to be analyzed in the EIS, and we agree that the suite of issues presented are appropriate to analyze in detail in the EIS. Our enclosed scoping comments provide our recommendations for analysis of key areas that will be the focus of our review of the project, including natural resource impacts, as well as human health and impacts to communities and federally recognized tribes. Our scoping comments also include recommendations related to: risk analysis and hazardous materials management, including geotechnical stability; analytical tools and methodologies, including predictive modeling of impacts to water, air, fish, and other aquatic resources; mitigation and monitoring; and financial assurance. Identification of these key issues and recommendations is based on the EPA's knowledge of the proposed project as well as our experience with mining projects in Alaska and other Region 10 states.

We appreciate the opportunity to participate early in the planning process for this project and are looking forward to working with you as you develop the EIS. Should you have any questions regarding our comments, please contact Patty McGrath, EPA Region 10 Mining Advisor at (206) 553-6113 or [mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read 'R. David Allnutt', with a stylized flourish at the end.

R. David Allnutt  
Director

Enclosure:

1. U.S. Environmental Protection Agency Detailed Scoping Comments for the Pebble Project EIS

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***EPA Region 10 Detailed Scoping Comments for the  
Pebble Project Environmental Impact Statement***

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**GENERAL COMPONENTS OF NEPA ANALYSIS**

**Purpose and Need**

We recommend that the EIS include a clear and concise statement of the underlying purpose and need for the proposed project, consistent with the implementing regulations for NEPA<sup>2</sup> and the Clean Water Act Section 404(b)(1) Guidelines (Guidelines).<sup>3</sup> In presenting the purpose and need, the EIS should reflect not only the Corps' purpose in responding to the permit application, but also the broader public interest and need for this project. An appropriately defined purpose and need statement is of critical importance to setting up the analysis of a range of reasonable and practicable alternatives in the EIS that will meet the requirements of both NEPA and the Guidelines.

**Range of Alternatives**

We recommend that the EIS include a range of reasonable alternatives that meet the stated purpose and need for the project, are responsive to the issues identified during the scoping process and through tribal consultation, and include options for avoiding significant environmental impacts. This will ensure that the NEPA analysis provides agency decision makers and the public with information that defines the issues and identifies a clear basis for the choices made among the range of alternatives, as required by NEPA. The EIS should clearly outline the physical design of current and proposed facilities and alternatives (including ore storage sites, waste rock disposal areas, tailings areas, water storage and conveyance facilities, and supporting infrastructure including the transportation corridor, port site, and pipeline).

The EIS should "rigorously explore and objectively evaluate all reasonable alternatives"<sup>4</sup> even if some of them are outside the capability or the jurisdiction of the agency preparing the EIS for the proposed action.<sup>5</sup> This includes identifying the specific criteria that were used to (1) develop the range of reasonable alternatives, (2) eliminate certain alternatives, and (3) identify the agency preferred alternative, as appropriate. In addition, we recommend the EIS provide a clear discussion of the reasons for the elimination of alternatives that are not evaluated in detail.

While NEPA requires the evaluation of *reasonable* alternatives to the proposed action, the Guidelines require the analysis of *practicable*<sup>6</sup> alternatives in order to identify the least environmentally damaging

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<sup>2</sup> 40 C.F.R. § 1502.13.

<sup>3</sup> Within the context of the Guidelines, practicable alternatives to the proposed discharge of fill or dredged material are identified "in light of overall project purposes," which is also termed "the basic purpose of the proposed activity." 40 C.F.R. § 230.10(a)(2).

<sup>4</sup> 40 C.F.R. § 1502.14(a).

<sup>5</sup> 40 C.F.R. § 1502.14(c).

<sup>6</sup> An alternative is practicable if it is available and capable of being done after taking into consideration cost, existing technology, and logistics in light of overall project purposes. 40 C.F.R. § 230.10(a)(2).

practicable alternative (LEDPA), which is the only alternative that can be permitted.<sup>7</sup> The analysis of alternatives for NEPA can provide the information for evaluation of alternatives under the Guidelines.<sup>8</sup> We recommend that the EIS range of alternatives include the practicable alternatives developed for the Guidelines analysis.

In evaluating the proposed project and alternatives, the analysis should include an evaluation of performance and effectiveness, as well as the planned monitoring to ensure efficacy of proposed design features, environmental protection measures, and mitigation.<sup>9</sup>

Regarding mitigation for purposes of NEPA, we recommend that the alternatives analysis include appropriate mitigation measures not already included in the proposed action or alternatives.<sup>10</sup> The EIS should evaluate reasonable alternatives, including mitigation measures, to reduce or minimize adverse impacts to environmental resources. We recommend that, in conducting such an evaluation, the Corps consider:

- The disturbance footprint;
- Habitat value, cultural significance, and risks in siting project components for the proposed mine site components, as well as the port site, transportation corridor, and pipeline components;
- Source control measures (effective management of waste rock and tailings to prevent acid generation and metal leaching) and containment (liners and covers);
- Measures to reduce contact between mine waste materials and surface water and groundwater (such as surface water diversions and liners and covers as recommended above);
- Impacts of pit dewatering on groundwater and stream flows;
- Treatment to promote compliance with water quality standards;
- The physical stability of structures (e.g., pit walls, ore storage and waste rock facilities, tailings facility) during operations and closure, such as considering dry stack tailings;
- Impacts along the pipeline route and transportation corridor, including to Lake Iliamna;
- Impacts from dredged material disposal;
- Impacts to the marine environment at the Amakdedori Port site;
- Air pollutant emissions; and
- Impacts to traditional and cultural uses and resources, including key subsistence species and sites.

## Indirect Impacts

We recommend that the EIS include consideration of all reasonably foreseeable indirect effects caused by the action but that may occur later in time or farther removed in distance.<sup>11</sup> The indirect effects analysis “may include growth inducing effects and other effects related to induced changes in the pattern of land use, population density or growth rate, and related effects on air and water and other natural

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<sup>7</sup> 40 C.F.R. § 230.10(a)

<sup>8</sup> 40 C.F.R. § 230.10(a)(4).

<sup>9</sup> The term mitigation included in this “Range of Alternatives” section is referring to the general term as it applies to NEPA. Compensatory mitigation for purposes under CWA section 404 cannot be used to reduce environmental impacts in the evaluation of the least environmentally damaging practicable alternatives for the purposes of requirements under Section 40 C.F.R. § 230.10(a). See 1990 Memorandum of Agreement between Army and EPA concerning the determination of mitigation under CWA section 404(b)(1) Guidelines.

<sup>10</sup> 40 C.F.R. § 1502.14(f).

<sup>11</sup> 40 C.F.R. § 1508.8(b).

systems, including ecosystems.”<sup>12</sup> While NEPA does not require agencies to engage in speculation, “[t]he EIS must identify all of the indirect effects that are known, and make a good faith effort to explain the effects that are not known but are reasonably foreseeable.”<sup>13</sup>

We therefore recommend that the EIS evaluate the expansion and continued operation of the currently proposed project to the extent that the Corps considers it to be a reasonably foreseeable indirect effect of the proposed action. The current proposed Pebble Project description includes mining of approximately 1.1 billion tons of mineralized material, while the 2011 Preliminary Assessment Technical Report<sup>14</sup> estimated that the total Pebble mineral resource may be 11.9 billion tons. It may be reasonable to predict that a mine at the Pebble deposit will eventually operate for longer than 20 years and recover and process additional ore based on the size of the deposit, the significant infrastructure that will be developed under the current project description, and statements made by the Pebble Limited Partnership regarding the potential to examine expanding the mine once initial production has begun on the current proposal.<sup>15</sup> Accordingly, we recommend that the EIS consider the potential impacts associated with reasonably foreseeable mine expansion scenarios, including up to 11.9 billion tons.

In addition, we recommend that the EIS consider the extent to which it is reasonably foreseeable that the proposed transportation corridor and natural gas pipeline may be made accessible to the public and may stimulate additional reasonably foreseeable mining projects in the area, and potential environmental effects associated with that induced mining. Although PLP’s current proposal only includes private access to the infrastructure components, public access may be granted in the future. This potential may be different for the different infrastructure elements. For example, if the pipeline is regulated as a common carrier, then public access could be allowed if capacity permits. We recommend that the EIS discuss any reasonably foreseeable future public access to the project’s infrastructure components and analyze any reasonably foreseeable indirect effects of this action.

Construction and operation of the project would result in increased vessel traffic in Cook Inlet and on Lake Iliamna because vessels will bring supplies to the site and transport products off-site. In addition to evaluating the direct effects of the increased transportation, we recommend that, if it is reasonably foreseeable that the ports and ferry landings will become available for public use, then any reasonably foreseeable future use of these components should be assessed in the EIS as indirect or cumulative effects. Should the port and ferry terminals remain open following mining, this infrastructure may result in increased use and vessel traffic beyond what PLP is currently proposing.

Indirect project impacts under NEPA can include secondary effects, which are defined by the Guidelines as “effects on the aquatic ecosystem that are associated with the discharge of dredged or fill materials, but do not result from the actual placement of the dredged or fill material.”<sup>16</sup> The consideration of secondary effects is necessary for the Guidelines analysis, and examples of potential secondary effects are discussed in the section on aquatic resources below.

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<sup>12</sup> *Id.*

<sup>13</sup> Forty Most Asked Questions Concerning CEQ’s NEPA Regulations, Question 18 (CEQ, 1981).

<sup>14</sup> Preliminary Assessment of the Pebble Project, Southwest Alaska, February 2011. Developed by Wardrop, A Tetra Tech Company, for Northern Dynasty Minerals, Ltd.

<sup>15</sup> e.g., see <http://www.alaskajournal.com/2018-01-10/permit-application-reveals-size-scaled-down-pebble-project>. “Collier has acknowledged the company might look to expand after initial production commences but contends growing the project would require additional rounds of environmental reviews and permitting that would be independent from any approvals Pebble already had.”

<sup>16</sup> 40 C.F.R. § 230.11(h).

## Cumulative Impacts

In accordance with NEPA, the cumulative impacts analysis should identify how resources, ecosystems, and communities in the vicinity of the project have already been, or will be affected by, past, present, or reasonably foreseeable future activities in the project area, “regardless of what agency (federal or non-federal) or person undertakes such other actions.”<sup>17</sup>

The Guidelines also fundamentally require consideration of reasonably foreseeable cumulative effects in determining whether a project complies with the significant degradation prohibition and to ensure that discharges will not have an unacceptable adverse impact either individually or in combination with known and/or probable impacts of other activities affecting the ecosystems of concern.<sup>18</sup> Cumulative effects are “the changes in an aquatic ecosystem that are attributable to the collective effect of a number of individual discharges of dredged or fill material,” which individually may be minor, but cumulatively may result in a “major impairment of the water resources and interfere with the productivity and water quality of existing aquatic ecosystems.”<sup>19</sup>

For the cumulative impacts assessment, we recommend that the EIS delineate appropriate geographic boundaries, including natural ecological boundaries whenever possible, as well as consider an appropriate time period for the project’s effects. We recommend that resources be characterized in terms of their response to change and capacity to withstand stresses. Trends data should be used to establish a baseline for the affected resources, to evaluate the significance of any historical degradation (e.g., due to exploration activities), and to predict the environmental effects of the project components.

Past, present, and reasonably foreseeable future activities that should be considered in the cumulative impact assessment will vary across the geographic scope of the various mine-site and infrastructure components. Please refer to CEQ’s “Considering Cumulative Effects Under the National Environmental Policy Act”<sup>20</sup> and the EPA’s “Consideration of Cumulative Impacts in EPA Review of NEPA Documents”<sup>21</sup> for assistance with identifying appropriate boundaries and identifying appropriate past, present, and reasonably foreseeable future projects to include in the analysis.

In particular, we recommend that the cumulative effects analysis consider, but not be limited to, the following activities:

- Past and current exploration activities conducted by PLP and others at the Pebble site;
- Current exploration activities occurring in the Bristol Bay watershed region;
- Reasonably foreseeable expansion and continued operation of the currently proposed project (while this is an indirect effect under NEPA, as discussed above, it is a cumulative effect under the Guidelines);
- Reasonably foreseeable future use of project infrastructure (road, port, pipeline); and,
- Reasonably foreseeable development of additional mining projects as a result of increased exploration activity in the region. Even if those activities are not determined to be indirect effects of the proposed action (as discussed above), they are still reasonably foreseeable.

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<sup>17</sup> 40 C.F.R. § 1508.7.

<sup>18</sup> 40 C.F.R. § 230.10(c).

<sup>19</sup> 40 C.F.R. § 230.11(g).

<sup>20</sup> <http://ceq.hss.doe.gov/nepa/ccenepa/ccenepa.htm>.

<sup>21</sup> <http://www.epa.gov/compliance/resources/policies/nepa/cumulative.pdf>.

## **ENVIRONMENTAL RESOURCE IMPACTS**

### **Aquatic Resources, Including Wetlands, Streams, and Fish**

#### **Evaluating Compliance with the Clean Water Act Section 404(b)(1) Guidelines**

The Corps' potential CWA Section 404 permitting action is triggering preparation of the EIS. We recommend that the Corps' permitting regulations and the Guidelines therefore provide the context for identifying relevant issues and evaluating alternatives in the EIS.

The Guidelines are the substantive environmental criteria for the evaluation of proposed discharges of dredged or fill material, and applicants must demonstrate compliance with the Guidelines.<sup>22</sup> The EIS is a significant component of the administrative record for the District's permit decision, which can and should provide sufficient information to address compliance with the Guidelines and the Corps' public interest review.<sup>23</sup> Although it is not mandatory, we support the Corps' decision to include of the public interest review factors into the list of issues to be considered in the EIS. This will enable the expected benefits to be balanced against reasonably foreseeable detriments, and all relevant public interest factors to be weighed.

We recommend that the organization of the EIS facilitate the evaluation of the proposed project's compliance with the Guidelines. Issues relevant to compliance with the Guidelines should be addressed explicitly in the EIS where possible. Alternatively, a stand-alone Section 404(b)(1) analysis could be included as its own section of, or appendix to, the EIS. As mentioned above, we recommend that the range of alternatives evaluated in the EIS be sufficient to identify the LEDPA. In addition, we recommend that the final EIS identify which alternative is the LEDPA.

The Guidelines prohibit, for example, the authorization of a proposed discharge that would cause or contribute to the violation of an applicable water quality or toxic effluent standard, jeopardize a listed threatened or endangered species, or impact a marine sanctuary.<sup>24</sup> We recommend that these criteria be used to evaluate and compare alternatives.

The Guidelines also prohibit the authorization of a proposed discharge which will cause or contribute to significant degradation of the aquatic ecosystem.<sup>25</sup> Findings of significant degradation must be based upon specific factual determinations, evaluations, and tests identified in the Guidelines. These include the evaluation of the direct, secondary, and cumulative effects of the proposed discharge and alternatives on specific resources including fish, wildlife, and special aquatic sites. The significant degradation findings must also evaluate the effects to resource characteristics including aquatic ecosystem diversity, productivity, and stability. Evaluating the potential for significant degradation also requires the consideration of effects to human uses or values, including recreational, aesthetic, and economic values. With regard to fisheries, the Guidelines require, for example, an evaluation of effects to all forms and life stages of aquatic organisms in the food web, including fish and the plants and animals on which they feed and depend upon for their needs.<sup>26</sup> The Guidelines also require an evaluation of effects to

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<sup>22</sup> 40 C.F.R. § 230.12(a)(3)(iv).

<sup>23</sup> See 33 C.F.R. § 320.4.

<sup>24</sup> 40 C.F.R. § 230.10(b).

<sup>25</sup> 40 C.F.R. § 230.10(c).

<sup>26</sup> 40 C.F.R. § 230.31.

recreational and commercial fisheries, which includes harvestable fish, crustaceans, shellfish, and other aquatic organisms used by man.<sup>27</sup> The Corps has proposed including a number of these evaluations in the EIS. We recommend that as many of the specific factual determinations, evaluations, and tests required by the Guidelines as possible be included in the EIS, and be used to evaluate and compare alternatives.

The Guidelines also prohibit any proposed discharge that does not include all appropriate and practicable measures to minimize potential harm to the aquatic ecosystem.<sup>28</sup> Subpart H of the Guidelines identifies numerous possible steps to minimize impacts, including reducing the footprint of the project, using co-location of facilities whenever possible, implementation of best management practices to reduce environmental impacts, configuring the project footprint to reduce or eliminate impacts to higher functioning aquatic resources and other appropriate and practicable measures. Also, as previously discussed, we recommend that the EIS include appropriate minimization measures both as part of the action alternatives and relative to the affected environment. The discussion of minimization measures should include assessment of their likely effectiveness.

#### Compensatory Mitigation

For unavoidable impacts to wetlands, streams, and other aquatic resources, the Guidelines require appropriate and practicable compensatory mitigation to offset unavoidable environmental impacts associated with discharges permitted under CWA Section 404. We recommend that the EIS consider potential mechanisms to offset likely unavoidable aquatic resource impacts. We also recommend that the EIS include the applicant's proposed compensatory mitigation plan. Compensatory mitigation requirements, including the components of a compensatory mitigation plan, are described in Subpart J of the Guidelines. Pursuant to the Guidelines, the level of detail in the compensatory mitigation plan should be commensurate with the scale and scope of the impacts.

Compensatory mitigation may be provided through purchase of credits from an approved mitigation bank, purchase of credits from an approved in-lieu fee mitigation program, and/or completion of a permittee-responsible compensatory mitigation project(s). Final compensatory mitigation requirements must be commensurate with the amount and type of impact that is associated with a particular Section 404 permit.<sup>29</sup> Compensatory mitigation required by the Guidelines is separate from, and may be in addition to, proposed project impact mitigation under NEPA.

#### Characterizing the Affected Environment

We recommend that the EIS describe aquatic habitats in the affected environment by resource type using the data sources and classification approaches that provide the greatest resolution possible. For example, if wetlands are mapped using a Cowardin classification, that mapping should be to the smallest identifiable map unit. Likewise, streams should be classified and mapped accordingly. The baseline information for aquatic resources should include their functional condition and integrity. We also recommend that the EIS evaluate the characteristics of the potentially affected aquatic resources, how those characteristics provide fish habitat, and how such habitat could be adversely impacted by the proposed project. Wetlands and streams perform different functions at different rates, and capturing this information is critical for evaluating the potential environmental impacts of the proposed action, alternatives, and reasonably foreseeable actions (exploration and mining) on these resources.

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<sup>27</sup> 40 C.F.R. § 230.51.

<sup>28</sup> 40 C.F.R. § 230.10(d).

<sup>29</sup> 40 C.F.R. § 230.93(a)(1).

Characterizing the distribution of resident and anadromous fish in potentially affected streams and other aquatic resources is also important, and we recommend the use of data sources such as the Anadromous Waters Catalog<sup>30</sup> and the Alaska Freshwater Fish Inventory<sup>31</sup> to help with this characterization.

#### Aquatic Resource Impacts Analysis

We recommend that the areal extent (i.e., acreage) of impacts to aquatic resources be quantified in the EIS for both direct and secondary effects. The acreage values for the direct and secondary impact footprints should include the acreage for streams as well as for wetlands, ponds, lakes, mudflats, and other waters. In other words, reported acreage losses should represent the total loss of jurisdictional waters. For streams, the loss of channel length should also be quantified by linear feet and/or miles. Channel length values are a more intuitive metric for some, and facilitate different types of analyses than the acreage values. In addition to the areal or linear extent, impacts to aquatic resources should also be quantified by the expected change in the function these resources perform, including fishery support functions, or change in the condition of the resource.

Direct effects are impacts on aquatic resources within the footprint of the discharge of dredged or fill material. Direct effects at the mine site would include stream and other aquatic resource losses within the footprints of the tailings storage facility, the ore and overburden storage sites, the mine pit, and other mine site facilities described in the permit application. Construction of the transportation and pipeline corridors and port facility will likely involve such discharges as well.

Secondary effects, as defined by the Guidelines, are associated with the discharge of dredged or fill material, but do not result from actual placement of this material. These effects are also considered indirect impacts under NEPA. Examples of secondary effects that should be evaluated in the EIS include the following:

- Elimination of streams and wetlands due to drowning by the tailings impoundment and other mine components;
- Dewatering of streams and other aquatic resources due to pumping of groundwater during open pit mining and filling during closure;
- Fragmentation of aquatic resources due to the placement of the mine pit, ore storage sites, tailings storage facility, and other mine components;
- Degradation of downstream fish habitat due to streamflow alterations resulting from water capture, withdrawal, storage, treatment, or release at the mine site;
- Degradation of downstream fish habitat due to water quality impacts associated with mine construction and operation;
- Degradation of downstream fish habitat due to the loss of important inputs such as nutrients and groundwater from upstream sources;
- Degradation of aquatic resources due to dust deposition from mining and transportation activities.

The evaluation of the proposed project's impacts and alternatives should fully consider the physical, chemical, and biological effects of each of the direct and secondary effects, and should consider incremental changes from these impacts along each stream segment downstream of the impact site.

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<sup>30</sup> See <https://www.adfg.alaska.gov/sf/SARR/AWC/>.

<sup>31</sup> See <http://www.adfg.alaska.gov/index.cfm?adfg=ffinventory.main>.



Considering the value of the region's commercial, subsistence, and recreational fishery resources, we recommend that the EIS focus on quantifying direct, indirect, and cumulative impacts on resident and anadromous fish and their habitat resulting from losses of streams with documented fish occurrences; losses of headwater source areas of these streams; losses of wetlands, lakes, and ponds; and streamflow alterations. We appreciate that the Corps has made the EPA's 2014 Bristol Bay Watershed Assessment available on the Pebble Project website, and we also recommend that this document be referenced in preparing the EIS.<sup>32</sup>

The losses of stream reaches and adjacent wetlands from dewatering, as well as changes to downstream reaches and adjacent wetlands, may result in physical, chemical, and biological changes which would impact fishery habitat and habitat support. We recommend that the EIS model and consider these impacts compared to baseline conditions, including but not limited to:

- Evaluate changes in water volume in the stream areas of impact, as well as changes in the downstream reaches of the watershed resulting from losses of upstream contributions of water. We recommend that the analysis address seasonal changes to the different stream segment hydrographs, including changes to seasonal temperatures, dissolved oxygen levels, sediment transport capabilities, and any associated changes to sediment grain sizes in the different stream segments;
- Evaluate flow changes in the impacted stream reaches, both from pit dewatering as well as any proposed in-stream discharge points, to assess any potential changes to stream profile, form, and pattern, and to identify any areas of accretion and/or scouring which may reasonably be anticipated. We also recommend that areas of stream incision as a result of flow changes be identified, as well as losses of connectivity to floodplains and riparian wetlands currently connected to the downstream reaches;
- Identify potential changes to nutrient levels, turbidity, and dissolved oxygen, particularly with respect to seasonal patterns in the downstream reaches. We further recommend that both the direct losses of both autochthonous and allochthonous inputs from upstream reaches lost and/or disconnected from wetland and other riparian habitats, as well as the incremental reductions in those inputs in downstream segments throughout the stream reaches and their effects on system-wide primary, secondary, and tertiary production, be evaluated. These analyses should consider the direct changes to downstream habitats as well as changes to fisheries support in the different stream reaches;
- Evaluate decreases in anticipated invertebrate transport and production in downstream segments and those effects on fish production; and
- Evaluate the effects of disconnecting any off-channel habitat both near the areas of direct impact and throughout the downstream reaches, both for losses of allochthonous inputs and also for potential losses of nursery habitat.

We recommend that the direct, indirect, and cumulative impacts of any of these potential physical, chemical, and biological alterations be examined for how they may result in the loss and/or degradation of fish habitat, including alterations with respect to spawning, overwintering, nursery, and migration. Habitat losses that may result from freeze-through or seasonal warming of fish production areas should also be evaluated.

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<sup>32</sup> See <https://www.epa.gov/bristolbay/bristol-bay-assessment-final-report-2014>.

## Water Quality and Quantity

### Evaluating Impacts to Surface Water and Groundwater Quality and Quantity

Water quality is one of the EPA's principal concerns at mine facilities due to the potential for acid-generating and metal-leaching waste materials (ore, waste rock, tailings, pit walls) that are exposed to the environment and require management over long periods of time. In addition, road construction and operation have the potential to contribute a significant quantity of sediment to streams. We recommend that the EIS characterize baseline surface water and groundwater quality, quantity, and interactions, and evaluate the impacts of all aspects of the proposed operations and alternatives (including pit dewatering and backfilling, tailings management and disposal, water management, and port-site and transportation aspects) on these hydrologic components and describe mitigation for adverse impacts.

Given the potential impacts of the proposed Pebble Project, the EPA recommends that the Corps specifically include in the water resources analysis for the EIS (see also our recommendations for Analysis Tools and Methodologies):

- Characterization of existing groundwater, surface water, springs, and wetland resources within the area of both the project and all potential alternatives, including groundwater levels, flow direction and gradients, and chemistry;
- Development of a hydrogeologic conceptual site model, including:
  - Maps of groundwater, surface water, springs, and wetland resources in the area to be developed or affected;
  - Baseline data on the extent and quality of groundwater, surface water, springs and wetlands;
  - Information on the quantity and location of all aquifers, including Underground Sources of Drinking Water, recharge zones and source water protection areas;
  - Identification of any CWA § 303(d) listed waterbodies and any existing restoration efforts for these waters;
  - Identification and description of all wetlands and surface waters that could be affected by the project and alternatives; where applicable, acreages, channel lengths, habitat types, values and functions of these waters should be identified;
  - Identification and description of hydrologic pathways (e.g., the connectivity of springs or groundwater to surface waters; the connectivity of all streams to each other and to wetlands); and
  - A detailed water balance for the proposed action and each alternative.
- Assessment of which waters may be impacted, the sources and nature of potential impacts (both quality and quantity), specific pollutants likely to impact those waters and a comparison to applicable environmental standards (e.g., surface water and drinking water quality standards);
- Consideration of downstream impacts and potential for changes in metal speciation and bioavailability (in particular, the impacts of copper, which can have adverse effects on salmon at very low concentrations);
- Evaluation of surface water and groundwater use, including maps and source identification of agricultural, domestic, and public water supply wells or intakes; and
- Consideration of effects of seasonality on water quantity and quality impact assessment, including predictions for all phases of the project (construction, operations, and closure).

### Anti-degradation

The anti-degradation provisions of the CWA apply to those waterbodies where water quality standards are currently being met. In certain high-quality waters, the anti-degradation provisions prohibit

degrading water quality unless it is determined that allowing lower water quality is necessary to accommodate important economic or social development in the area in which the waters are located.<sup>33</sup> We recommend that the EIS discuss whether and how the CWA anti-degradation requirements could be met.

#### Water Management and Treatment

We recommend that the EIS describe the plans for water management, treatment, and discharge during all phases of the project (construction, operations, and closure), including plans for long-term water treatment. The EIS should evaluate and disclose the adequacy, reliability, effectiveness, and operational uncertainty associated with proposed operation and closure (long-term) water management and treatment techniques, taking into account seasonality and potential changes associated with future climate scenarios. We also recommend that the analysis characterize chemical compositions and quantities of process waters, mine drainage, storm water, and treated and untreated effluent. This information should be supported by the results of treatability testing. Assumptions used in the analysis should be disclosed and be reasonably conservative. If long-term water treatment is needed, we recommend that the EIS include modeling of predicted stream concentrations of contaminants of concern, both with and without treatment, to evaluate the potential impacts to water quality if the treatment system is not working properly.

The EIS should also identify the Alaska Pollutant Discharge Elimination System (APDES) discharge locations, identify applicable water quality standards, and analyze the likelihood and ability of all discharges to meet applicable standards and the direct, indirect, and cumulative impacts of such discharges to the receiving waters. We recommend that any applicable water quality variance requests, site-specific criteria proposals, and/or any other planned or potential requests for water quality standard revisions also be disclosed in the EIS.

#### Sediment Management and Stormwater Runoff

Since the project has the potential to cause or contribute to erosion of soils and subsequent sediment loading to nearby surface waters, we recommend that the EIS evaluate construction design and operation practices that will be used to minimize erosion and control stormwater runoff from the mine site, port sites, transportation corridor, and pipeline route. We recommend that the EIS discuss specific mitigation measures that may be necessary or beneficial in preventing and minimizing adverse impacts to water quality and disclose the effectiveness of such measures. We suggest that the Corps consider the Best Management Practices identified by the EPA for mining facilities<sup>34</sup> and specify those that would be suitable and likely implemented at the Pebble Project. We also recommend that the EIS document the project's consistency with applicable APDES stormwater permitting requirements.

#### Hydrostatic Test Water

Hydrostatic testing will likely be utilized to verify pipeline integrity. We recommend that the EIS identify and describe the location of the water sources required for hydrostatic testing, in terms of surface area, depth, volume, withdrawal rate, and project requirements. For each water source, we recommend that the EIS discuss the presence of any anadromous and/or resident fish species, including discussion of any direct and cumulative impacts to fisheries resources. In addition, we recommend that locations and methods of discharges to land and/or surface waters be specified in the EIS. Emphasis should be placed on minimizing inter-basin transfers of water to the maximum extent practicable, to

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<sup>33</sup> 40 C.F.R. § 131.12.

<sup>34</sup> [https://www3.epa.gov/npdes/pubs/sector\\_g\\_metalmining.pdf](https://www3.epa.gov/npdes/pubs/sector_g_metalmining.pdf).

minimize the risk of mobilizing invasive species. We recommend that the EIS describe the mitigation measures and control devices that would be implemented to minimize environmental impacts.

## **Marine Environment and Freshwater Lakes**

### **Port Construction and Dredging Impacts**

According to the Permit Application Appendix D – Project Description, the Amakdedori Port will require dredging of a channel and turning basin for shipping access to berths. According to the application, annual maintenance dredging will be necessary throughout the life of the port facility. Dredging activities potentially affect habitats and key ecological functions that support recruitment and sustainability of estuarine and marine organisms. We recommend that the EIS:

- Characterize the marine benthic environment and organisms, sediment composition and grain size, etc.;
- Identify any biologically important areas, such as migratory routes, benthic communities, and subsistence areas;
- Evaluate marine dredging, dewatering, transloading (from water to land), placement methods and options (summer and winter), and disposal sites (offshore, nearshore, upland, and open-water), as well as beneficial uses of the dredged material;
- Include and evaluate a sampling and analysis plan, as well as a marine dredging and disposal plan;
- Evaluate the following potential impacts of dredging activities on species and their habitats:
  - Substrate removal and any resulting habitat and species removal (entrainment);
  - Potential changes to estuarine bathymetry, fluvial and tidal energy, and substrate roughness, and any attendant impacts to salinity structure and estuarine circulation;
  - Potential changes to sediment transport processes, including effects on adjacent shorelines;
  - Alteration of sediment composition in and around the dredging site (including changes to the nature and diversity of benthic communities);
  - Local resuspension of sediments and any turbidity increases;
  - Spread of sediments (and any associated contaminants) into the area surrounding the dredging site;
  - Release of sediment-associated nutrients, potential increases in eutrophication and resulting decreases in dissolved oxygen concentrations;
  - Decreased primary production due to reduced transparency of the water column and/or smothering, particularly at in-water disposal sites; and
  - Enhanced bioavailability and ecotoxicological risk of background contaminants and/or chemical or biochemical changes of contaminants;
- Consider implementation of effective mitigation measures to ensure that marine resources and habitats are adequately protected; and
- Incorporate a monitoring plan for marine protected resources and associated habitats to ensure effectiveness of mitigation measures.

Because of the magnitude of the proposal, dredging and disposal operations will need to be carefully planned and scheduled to avoid and minimize impacts to sensitive marine mammals, fish, shellfish, and their habitat at critical spawning and migration periods.

### **Dredged Material Disposal**

According to the Permit Application Appendix D, dredged material will be used to construct the jetty, causeway, and/or the main terminal patio area, if suitable. Excess dredged material will be stockpiled in

an upland location adjacent to the port facilities. The EPA recommends an on-the-ground wetland delineation at the proposed dredged material disposal site to verify whether there are any jurisdictional waters of the United States at this location.

The proposed discharge of dredged material effluent from the confined disposal facility into Kamishak Bay is subject to regulation under Section 404 of the CWA. Thus, the EIS should include sufficient information to support making the required determinations and findings under the Guidelines. For example, Subpart G of the Guidelines includes general evaluation procedures and specific testing procedures to reach the determinations required by 40 C.F.R. § 230.11. The Inland Testing Manual<sup>35</sup> also provides detailed technical guidance on how to evaluate and test dredged material consistent with the Guidelines. In particular, the EPA recommends using the ITM Appendix B, "Guidance for Evaluation of Effluent Discharges from Confined Disposal Facilities."

To support disposal decisions, we recommend that the EIS provide an inventory of the physical and chemical characteristics of the dredged material and an assessment of disposal alternatives. We recommend that the range of dredged material management alternatives include: no action; the proposed action; beneficial uses such as beach nourishment or construction material; a disposal site in internal waters, landward of the Kamishak Bay closing line (regulated under the CWA); and an ocean disposal site seaward of the Kamishak Bay closing line (regulated under the Marine Protection, Research and Sanctuaries Act).

#### Potential for Ocean Disposal of Dredged Material

Under Section 102 of the MPRSA, the EPA is responsible for designating and managing ocean dumping sites for all materials, including dredged material. The EPA designates ocean disposal sites through rulemaking and sites are published at 40 C.F.R. § 228.15. The EPA bases the designation of an ocean disposal site on environmental studies of a proposed site, studies of regions adjacent to the site, and historical knowledge of the impact of disposal on areas similar to the site in physical, chemical, and biological characteristics. All studies for the evaluation and potential selection of dredged material disposal sites should be conducted in accordance with the criteria for the selection of disposal sites for ocean dumping published in 40 C.F.R. §§ 228.5 and 228.6. The minimum requirements for baseline assessment surveys are found in 40 C.F.R. § 228.13.

The evaluation process includes conducting oceanographic studies to establish the environmental conditions at all alternative locations being considered as potential sites, as well as the area or region encompassing the alternative sites. Results from oceanographic studies and other sources are used to model likely dispersion and deposition of material disposed at the alternative sites and evaluate potential impacts. If there are no practicable alternatives to ocean dumping that will have a less adverse impact on the environment, this information is used to select the best ocean site proposed for designation.

If ocean disposal is to be considered as an alternative, we encourage the Corps to engage early and actively with the EPA to ensure that site selection activities are consistent with the MPRSA and the ocean disposal criteria. The EIS must be adequate for the EPA to ensure that use of the site selected for designation will not likely cause unreasonable degradation to the surrounding marine environment. In addition, only dredged material that is authorized for disposal under the MPRSA and 40 C.F.R. Part 227 may be disposed in an EPA-designated ocean dredged material disposal site.

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<sup>35</sup> See <https://www.epa.gov/cwa-404/inland-testing-manual>.

### Impacts of Vessel Traffic

Marine traffic, including barges and other vessels associated with construction and operation of the proposed project, may also result in impacts to the marine environment. For example, vessel traffic may result in potential impacts to marine mammals, including threatened and/or endangered species, and their migration patterns and routes; subsistence, commercial, and recreational fisheries; and other vessel use. We recommend the EIS describe the vessel traffic schedule in Cook Inlet; patterns and marine transportation routes; subsistence, commercial, and recreational fishery resources; and the migration period, patterns, and routes of potentially affected marine mammals, including Cook Inlet Belugas. The direct, indirect and cumulative impacts from vessel traffic on marine mammals, threatened and endangered species, critical habitats, and fishery resources should be analyzed in the EIS, and the EIS should discuss the mitigation measures that would be implemented to minimize such impacts.

Use of the proposed ice-breaking ferry on Lake Iliamna may result in similar impacts to the freshwater lake environment, including the potential for wake impacts to the shoreline. We recommend the EIS analyze the direct, indirect, and cumulative impacts of the year-round use of the lake proposed by the applicant on threatened and/or endangered species, fishery resources, and other lake user groups, and discuss mitigation measures to minimize impacts.

### **Air Quality**

The EPA recommends that the EIS evaluate how the construction and operation of the proposed project and alternatives could affect air quality and what measures may be needed to mitigate potentially significant impacts. Such an evaluation is necessary to ensure compliance with state and federal air quality regulations, and to disclose the potential impacts from temporary or cumulative degradation of air quality. To address potential air quality impacts, the EIS should consider whether the direct, indirect, or cumulative impacts of project-related air emissions would result in any adverse impact on air quality or air quality-related values.

Potential air pollutant concerns for the proposed project include:

- Operation of heavy machinery and equipment, including marine vessels, during construction and operations that result in the emission of fossil fuel combustion exhausts. Such exhausts will include oxides of nitrogen, oxides of sulfur, carbon monoxide, and particulates. The significance of the contribution of project emissions to the formation of secondary particulate matter (PM<sub>2.5</sub>) and ozone should also be evaluated;
- Fugitive dust emissions may be generated from construction and operation of the mine, ancillary facilities, and supporting infrastructure. In addition to human health effects, dust blown from the roadway can settle onto wetlands, vegetation, or waterbodies, impairing their health as well; and
- Hazardous air pollutants may result from fuel combustion and ore processing. The *National Air Toxics Assessment* asserts that numerous human epidemiology studies show increased lung cancer rates associated with diesel exhaust and significant potential for non-cancer health effects (see <http://www.epa.gov/ttn/atw/nata>). Also, the Control of Emissions of Hazardous Air Pollutants from Mobile Sources Final Rule (66 Fed. Reg. 17,230, March 29, 2001) lists 21 compounds emitted from motor vehicles that are known or suspected to cause cancer or other serious health effects. The EPA recommends the EIS disclose whether hazardous air pollutant emissions would result from project construction and operations, discuss the cancer and non-cancer health effects associated with air toxics and diesel particulate matter, and identify sensitive receptor populations and individuals likely to be exposed to these emissions.

We recommend the following steps for the EIS air quality analysis:

- Characterize the existing conditions to set the context for evaluating project impacts, including:
  - Regional climate and meteorology,
  - Air quality and air quality related values (e.g., visibility),
  - Identification of sensitive receptors in the vicinity;
- Review air quality regulations and any air permitting requirements that apply to the air pollutant sources associated with the project;
- Provide a comprehensive emissions inventory of criteria pollutants (in tons per year), greenhouse gas emissions (in metric tons CO<sub>2</sub> equivalents per year), and significant HAP emissions for all project components (mine site, transportation corridor, port, and pipeline) and project phases; and
- If projected emissions are significant, conduct near-field and far-field air quality modeling to assess project-related air quality and visibility impacts. Also, see our recommendations related to Predictive Modeling, later in this document.

We recommend that the Corps evaluate and incorporate best management practices and mitigation measures into the EIS to reduce emissions of criteria pollutants and HAPs, which also have co-benefits of reducing GHGs. We recommend that the EIS include a comprehensive fugitive dust control plan as well as a construction air pollutant emissions control plan to address reduction of engine emissions.

These recommendations are separate and distinct from, and are not intended as a substitute for compliance with, any additional obligations of the Corps and the project proponent to comply with the federal Clean Air Act and any applicable state or tribal air pollution laws, which may require, among other things, obtaining pre-construction permits and operating permits, compliance with new source performance standards and/or national emission standards for hazardous air pollutants, as well as any applicable state implementation plan (SIP) requirements, including, as applicable to the Corps, the requirements under Section 176 of the Clean Air Act regarding conformity of federal activities to implementation plans approved or promulgated under section 110 of the Clean Air Act.

### **Climate Adaptation**

The EPA recommends that the EIS include a discussion of reasonably foreseeable effects that changes in the climate may have on the proposed project and the project area, including its long term infrastructure. This could help inform the development of measures to improve the resilience of the proposed project. If projected changes could notably exacerbate the environmental impacts of the project, the EPA recommends these impacts also be considered as part of the NEPA analysis.

### **Fish and Wildlife, including Endangered Species and Essential Fish Habitat**

The EPA recommends that the EIS evaluate impacts to fish and wildlife from the proposed project and alternatives. The aquatic resources section above also provides recommendations related to fisheries.

Special consideration should be given to listed and proposed species under the Endangered Species Act and Essential Fish Habitat under the Magnuson Stevens Fishery Conservation and Management Act. NEPA regulations require that, to the fullest extent possible, the EIS be prepared concurrently with



environmental analyses required by the ESA and other environmental laws.<sup>36</sup> Magnuson Stevens Act and ESA implementing regulations also encourage coordination with other environmental reviews.<sup>37, 38</sup>

We recommend that the EIS discuss the species listed and proposed as threatened or endangered under the ESA and the essential fish habitat within the project area (including the pipeline, roads, and port site) and the potentially impacted area surrounding the project. The EIS should describe impacts to ESA species and EFH and discuss the activities proposed to avoid, minimize, mitigate, and monitor listed and proposed species and EFH. We understand that the Corps will develop a biological assessment to evaluate impacts to listed and proposed endangered species and EFH, and recommend that it be included with the draft EIS. We also recommend that the federal action agencies work together to ensure that a single biological assessment is developed that meets all agencies' needs.

### **National Historic Preservation Act**

Section 106 of the National Historic Preservation Act of 1966 requires federal agencies to consider the effects of their actions on historic properties, including those of traditional religious and cultural importance, following regulations in 36 C.F.R. Part 800. The NHPA requires a federal agency, upon determining that activities under its control could affect historic properties, to consult with the appropriate State Historic Preservation Officer /Tribal Historic Preservation Officer. We support the Corps' early engagement with the Advisory Council on Historic Preservation, and we recommend that the EIS discuss any potential impacts to historic properties, including any tribal, cultural, or other treaty resources that are historic properties or traditional cultural properties. In addition, the EIS should identify alternatives and mitigation to avoid significant impacts. Recommendations related to traditional uses and resources that are not historic properties are discussed further below.

### **Invasive Species**

We know that ballast water from barges or vessels can be a major source of non-native species into marine ecosystems. Non-native species can adversely impact the economy and the environment and cause harm to human health. Impacts may include reduction of biodiversity of species inhabiting coastal waters due to competition between non-native and native species for food and resources. We recommend that the EIS discuss potential impacts from non-native invasive species associated with ballast water in vessels that will be utilizing the Amakdedori Port associated with this project and identify mitigation measures to minimize adverse impacts to the marine environment and human health.

## **SAFETY, RISK ANALYSIS, AND HAZARDOUS MATERIALS MANAGEMENT**

### **Accidents and Failures**

An array of spills, accidents, and failures can occur at mining sites. We recommend that the EIS describe the control measures that will be in place to prevent these events from occurring during construction, operations, and closure. To identify these events, we recommend that the Corps evaluate the proposed design and management of the tailings facility, dams, and other structures and evaluate PLP's waste and water management and reclamation plans to determine the project-specific likelihood of different types of accidents and failures. Designs and management plans for the pipeline and transportation components

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<sup>36</sup> 40 C.F.R. § 1502.25.

<sup>37</sup> 50 C.F.R. § 600.92 (c), (f).

<sup>38</sup> 50 C.F.R. § 402.06.



(road, ports, shipping) should also be evaluated to determine the probability of accidents and failures. We recommend that the results of these evaluations be documented in the EIS. For those events that are determined to be of low probability but high consequence, we recommend that the EIS evaluate the potential effects of such events on aquatic ecosystems, particularly fishery resources, and other resources. The EIS should also discuss mitigation measures that could minimize the risk or damages of such events.

### **Physical Stability of Structures**

The EIS should assess the likelihood of earthquakes in the region and describe the geotechnical stability of the tailings and waste storage facilities and open pit walls during operations and closure. We recommend including a description of how these facilities are designed and how they would be operated, closed, and monitored to ensure stability. In addition, we recommend that a risk assessment, such as a Failure Modes Effects Analysis, (FMEA) be conducted on each of the tailings dams with the results summarized in the EIS. An FMEA considers potential failure modes and identifies the relative likelihood and consequences of the failure modes, which are key considerations for impact assessment. We recommend that the EIS incorporate mitigation or alternatives to improve stability should the FMEA identify failure modes that are anything other than a tolerable risk.

For the tailings impoundment in particular, we recommend that the Corps require a demonstration that the structure complies with state dam safety criteria and has been designed by qualified persons. In addition, we recommend that the Corps require that the dam be independently reviewed (and modified if indicated by the review)<sup>39</sup>. Given the proposed size of the dams associated with the Pebble project and value of the downstream resources, we believe that an independent review of the dam structure is appropriate. We recommend that the results of the independent review be documented in the EIS in order to support the assessment of geotechnical stability.

As mentioned above in the Range of Alternatives section, we recommend that the Corps consider alternatives to improve physical stability of the tailings, including consideration of filtered tailings (dry stack). We note that consideration of a filtered tailings alternative and assessment of safety and stability via a FMEA and independent review panel are consistent with recommendations of *The Independent Expert Engineering Investigation and Review Panel Report on Mount Polley Tailings Storage Facility Breach* (January 30, 2015). In addition to investigating the cause of the Mount Polley tailings storage facility failure, the Review Panel made recommendations on actions that could be taken to ensure that similar failure does not occur at other mines. We recommend that the Corps consider the Review Panel Report and, in particular, the recommendations related to best available technology for new impoundments, design commitments to support permit applications, and actions to validate the safety of tailings storage facilities.

### **Hazardous Materials**

We recommend that the EIS address the potential direct, indirect, and cumulative impacts of hazardous materials/wastes management and storage from the construction and operation of the proposed project and alternatives. Mining activities may involve the transport of hazardous materials, and we recommend that the EIS disclose the types and amounts of materials that will be used at each step of mining operations. In addition, we recommend that the EIS describe measures that will be taken to minimize the

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<sup>39</sup> 33 C.F.R. § 325.1.

chances of an accidental release, emergency measures that will be implemented should such an event occur, and how potential adverse impacts from spills may be mitigated by effective containment and cleanup operations.

We also recommend that potential health impacts to local communities or other project area users be identified, as well as any strategies employed to communicate risks or actual emergencies. As part of this analysis, we recommend that the EIS use scientific and traditional ecological knowledge to describe potential health effects from exposure to hazardous materials and the effects on the palatability of eating potentially contaminated foods.

## **HUMAN HEALTH AND IMPACTS TO COMMUNITIES**

### **Sociocultural Impacts**

It is anticipated that the proposed project will result in employment opportunities for Alaska Native residents, as well as generate local and corporate revenues in the region. While employment opportunities and local revenues generally increase a community's standard of living, there can also be impacts to families, communities, and cultures, especially in areas where residents are participating in traditional cultural practices. Noise and physical structures may disturb and/or displace subsistence wildlife from the project area. Other project impacts may affect a community's ability to access traditional and accustomed subsistence use areas. We recommend that the EIS identify the specific communities, federally recognized tribes, and corporations that could be impacted, both positively and negatively, which will help agency decision makers and the public understand the scope of the potential sociocultural impacts.

We recommend that the sociocultural impacts associated with this project and alternatives be fully evaluated and disclosed in the EIS and include, but not be limited to, the following:

- **Socioeconomic Impacts**
  - Evaluate potential changes to the region's economy as a result of the mine construction and operation (e.g., changes to commercial fishery, recreational fishery, and tourism sectors).
  - Evaluate impacts associated with economic changes to families, communities, and cultures, including potential changes to those aspects of the area's economy that are currently subsistence-based;
  - Evaluate the potential decline in the region's economy following mine closure; and
  - Evaluate replacement costs of traditional foods if access or availability are impacted by the proposed project.
- **Accessibility of Traditional Use Areas**
  - Identify community traditional use areas for subsistence, harvesting, hunting and trapping, fishing, travelling, camping, berry picking, and other uses;
  - Describe the potential access limitations to these traditional use areas and their impacts to local communities; and
  - Coordinate with the tribes and communities on options for mitigating impacts associated with accessibility to traditional and accustomed use areas.
- **Compatibility of Traditional Use Areas**
  - Identify project activities that may conflict with traditional and accustomed uses; and

- Coordinate with the affected tribes and communities to identify mitigation options for avoiding and minimizing conflicts between traditional and accustomed subsistence uses and the construction and operation of this project.

## **Environmental Justice and Impacted Communities**

In compliance with NEPA and Executive Order 12898 on Environmental Justice, actions should be taken to conduct adequate public outreach and participation that ensures that the public and Native American tribes understand possible impacts to their communities and trust resources.

Executive Order 12898 requires each federal agency to identify and address disproportionately high and adverse human health or environmental effects of its programs, policies, and activities on minority populations, low-income populations, and Native American tribes.<sup>40</sup> The EPA also considers children, the disabled, the elderly, and those of limited English proficiency to be uniquely vulnerable populations that may be impacted.

The CEQ has developed guidance concerning how to address Environmental Justice in the environmental review process.<sup>41</sup> In accordance with this guidance, the EPA recommends that the EIS address the following points:

- Identify low income, minority, and Alaska Native communities that may be impacted by the project;
- Describe the efforts that have been or will be taken to meaningfully involve and inform affected communities about project decisions and impacts;
- Disclose the results of meaningful involvement efforts, such as community identified impacts;
- Evaluate identified project impacts for their potential to disproportionately impact low income, minority, or Alaska Native communities, relative to a reference community;
- Disclose how potential disproportionate impacts and environmental justice issues have been or will be addressed by the Corps' decision making process;
- Propose mitigation for unavoidable impacts that will or are likely to occur; and
- Include a summary conclusion, sometimes referred to as an "environmental justice determination" that concisely expresses how environmental justice impacts have been appropriately avoided, minimized, or mitigated.

We also recommend that particular attention be given to consideration of the dependence of local communities on local and regional subsistence resources, access to those resources, and perception of the quality of those resources. Additional information and tools for environmental justice analysis can be found on the EPA's website at: <https://www.epa.gov/environmentaljustice>.

## **Health Risk or Impact Analysis**

The EPA recommends that the Corps undertake a screening process to determine which aspects of health (including but not limited to public, environmental, mental, social, and cultural) could be impacted by the proposed project. Depending on the screening results, an analysis of health effects, such

<sup>40</sup> EO 12898: Federal Actions To Address Environmental Justice in Minority Populations and Low-income Populations. February 11, 1994.

<sup>41</sup> <http://ceq.hss.doe.gov/nepa/regs/ej/justice.pdf>.

### Scope of Health Assessment in EIS

## Data Collection

## Methods and Tools

Guidelines for conducting an HIA are available from various sources.<sup>43</sup> The World Health Organization has links to many guides.<sup>44</sup> The International Finance Corporation has also developed detailed guidelines for conducting an HIA.<sup>45</sup> In addition, the State of Alaska has developed *Technical Guidance for Health Impact Assessment*, also known as the “Alaska HIA Toolkit”.<sup>46</sup>

<sup>46</sup> See <http://dhss.alaska.gov/dph/Epi/hia/Documents/AlaskaHIAToolkit.pdf>.

## **CONSULTATION AND COORDINATION WITH TRIBAL GOVERNMENTS**

Executive Order 13175, Consultation and Coordination with Indian Tribal Governments (November 6, 2000), was issued to establish regular and meaningful consultation and collaboration with tribal officials in the development of federal policies that have tribal implications, and to strengthen the United States' government-to-government relationships with Indian tribes. In addition, pursuant to Public Law 108-119, 118 Stat. 452, as amended by Public Law 108-4217, 188 Stat. 3267, federal agencies are required to consult with Alaska Native Claims Settlement Act corporations on the same basis as Indian tribes under Executive Order 13175. We recommend that the EIS describe the process and outcome of any government-to-government and/or government-to-corporation consultations regarding the Pebble Project, issues that were raised during the tribal consultations and how those issues were addressed.

Cooperating agency involvement establishes a mechanism for addressing intergovernmental issues throughout the EIS development process, and we support the Corps' inclusion of two tribal governments as cooperating agencies. We recommend that the Corps remain open to including other potentially affected tribal governments that have the resources and interest in serving as cooperating agencies for EIS development, consistent with the July 28, 1999, memorandum from CEQ to the heads of federal agencies.

## **ANALYSIS TOOLS AND METHODOLOGIES**

### **Baseline Data Adequacy**

We suggest categorizing and synthesizing existing data to ensure pertinent information is available for review and use in the EIS analysis. We understand that the Corps intends to establish focused workgroups during development of the EIS. We support this approach and recommend that the workgroups include cooperating agency subject matter experts for key areas (air, water, wetlands, fisheries, etc.) to review baseline data for completeness, identify data gaps, and recommend approaches toward resolving those gaps in a timely manner. For example, additional analysis or collection of additional data may be required to characterize the accuracy of best available baseline estimates of resources such as fish populations, groundwater elevations, or wetland extents. Such information will be critical for designing and developing a robust monitoring framework and for assessing impacts during and after project development and comparing those to the baseline.

### **Geochemistry/Characterization of Ore, Waste Rock, and Tailings**

To provide reliable predictions of water quality and impacts to surface water and groundwater due to wastewater and mine waste management, we recommend that the physical and chemical characteristics of the ore, pit walls, waste rock, and tailings should be determined and disclosed in the EIS. Environmental samples used to support projections should represent a range of conditions that currently occur and that could occur in the future as a result of the project, including under potentially altered future climate conditions. Waste materials (ore, waste rock, tailings) used for environmental projections should be representative of the material to be mined and related to the mine plan and proposed processing methods. Physical and chemical characterization should be conducted in a manner that provides environmentally conservative estimates of impacts.

It may be helpful to consider EPA Region 10's Sourcebook for Hardrock Mining for recommendations related to the NEPA analyses of mining projects.<sup>47</sup> We recommend that the following information be utilized to characterize geologic and mineralogy setting/aqueous geochemistry in the baseline environment and impact prediction sections of the EIS:

- Whole rock analysis;
- Mineralogy;
- Drill core descriptions;
- Block model or similar model (a computerized estimate of the quantity and characteristics of ore and waste);
- Available literature on the ore deposit;
- Mineral occurrences (e.g., on fracture surfaces, in groundmass, using hand specimens and thin section) with an emphasis on sulfides and carbonates;
- Acid-base accounting;
- Long-term kinetic testing (including possible startup of test pads if sufficient material and access to site are available);
- Baseline surface and ground water quality and flows (including springs);
- Potentiometric surface for groundwater;
- Hydraulic properties (e.g., hydraulic conductivity, porosity, permeability) of soil, vadose zone, and groundwater aquifers, especially under proposed locations of mine facilities; and
- Hydrogeochemical models for prediction of water quality.

### **Predictive Modeling**

We recommend that predictive modeling be based on a site-specific conceptual model that describes the system boundaries, spatial and temporal scales, hydraulic (for water modeling) and chemical characteristics, sources of data and data gaps, and the mathematical relationships used to describe processes. We also recommend that our suggestions be applied to any environmental and predictive modeling used for assessing impacts in the EIS. The water quality model, in particular, should be capable of predicting both whole water and dissolved fractions of metals/metalloids and should provide temporal predictions that are consistent with the time-steps in applicable water quality criteria.

Any modeling documentation should include:

- Tables of parameter values used in the model;
- Tables and graphs of results;
- Uncertainty and sensitivity analyses;
- Errors associated with both measured and assumed data; and
- Recommendations for further analysis, if applicable.

We recommend that discussions on modeling include a clear statement of the management objectives intended to be achieved by the modeling, the level of analysis required to meet the objectives, and uncertainties associated with modeled outcomes. For your reference, please refer to EPA's guidance that provides recommendations for the effective development, evaluation, and use of models in

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<sup>47</sup>U.S. EPA Region 10. 2003. EPA and Hardrock Mining: A Source Book for Industry in the Northwest and Alaska January 2003.

environmental decision making.<sup>48</sup>

We recommend that the EIS use caution in describing absolute outcomes based on modeling. Mathematical modeling used for describing the physical and chemical characteristics of the project site and potential impacts includes a level of uncertainty; understanding these uncertainties and associated risks is necessary for informed decision making. We recommend that the study plan for modeling analysis clearly state the purpose, questions of concern, method, data, and limitations of the model to generate valuable interpretations. We also strongly recommend an appropriately conservative approach be taken with modeling and a range of predictive outcomes be discussed (e.g., most likely case, reasonable worst-case, and reasonable best-case scenarios) that reflect a range of climatic settings and critical input values. Inclusion of a reasonable range of outcomes allows the agencies to make better informed plans for mitigation, adaptive management, and contingencies to respond to reasonably foreseeable adverse impacts.

### **Traditional Ecological Knowledge**

Due to the location of the proposed project and traditional uses of the area, we recommend the identification, inclusion, and integration of traditional ecological knowledge into the EIS analysis, as appropriate. Such anthropological work can include the collection of local and traditional knowledge concerning the affected environment, anticipated impacts from the project, and traditional hunting and land use patterns in the area. We recommend that, in addition to reviewing any pertinent traditional ecological knowledge currently available, additional studies be conducted as necessary to clearly identify concerns and potential impacts, including cumulative impacts, from the proposed project and project alternatives. This information should be reviewed and included in the EIS to the extent possible and utilized in the analysis of potential impacts.

## **MITIGATION, MONITORING, AND ADAPTIVE MANAGEMENT**

### **Mitigation**

CEQ regulations at 40 C.F.R. § 1508.20 define mitigation to include five categories of actions to address impacts. Briefly stated, these are: avoiding, minimizing, rectifying, reducing, and compensating. The regulations at 40 C.F.R. § 1502.14(f), 1502.16(h), and 1508.25 indicate that appropriate mitigation measures should be addressed in an EIS both as part of the analysis of alternatives and in discussions of environmental consequences.

Mitigation is also relevant to evaluating compliance with the Guidelines, which prohibit discharges of dredged or fill material that will cause or contribute to significant degradation of the waters of the United States, and prohibit all discharges *“unless appropriate and practicable steps have been taken which will minimize potential adverse impacts of the discharge on the aquatic ecosystem.”*<sup>49</sup>

The Guidelines identify numerous types of actions to mitigate potential adverse impacts, which include

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<sup>48</sup> Guidance Document on the Development, Evaluation and Application of Environmental Models (PDF), EPA/100/K-09/003, March 2009. <http://www.epa.gov/crem/cremlib.html>.

<sup>49</sup> 40 C.F.R. § 230.10(d).

measures to avoid, minimize, and compensate for impacts. Avoidance, minimization, and compensation form a “mitigation sequence” that must be followed in order to comply with the Guidelines’ requirement that all appropriate and practicable steps be taken to mitigate impacts to aquatic resources.<sup>50</sup> Compensatory mitigation considerations under the Guidelines are discussed further in the section on aquatic resources above.

The EPA recommends that the EIS identify the type of activities that would require mitigation measures during the construction, operation, and closure phases of this project. In addition, we recommend identifying whether implementation of each measure is required by the Corps or any other governmental entity and which entity will be responsible for implementing the measure. To the extent possible, mitigation goals and measurable performance standards should be identified in the EIS to reduce impacts to a particular level or adopted to achieve an environmentally preferable outcome. CEQ guidance on the Appropriate Use of Mitigation and Monitoring seeks to enable agencies to create successful mitigation planning and implementation procedures with robust public involvement and monitoring programs.<sup>51</sup>

### Monitoring

Environmental monitoring programs should be designed to assess both impacts from the project and whether implemented mitigation measures are effective. We recommend that the monitoring programs:

- Define the monitoring goals and objectives;
- Provide details to demonstrate that goals and objectives will be achieved such as the parameters to be monitored, monitoring locations and frequency, data analysis, and reporting;
- Discuss actions (contingencies, triggers, adaptive management, corrective actions, etc.) that will be taken based on monitoring results;
- Identify and incorporate controls and pre-project data with quantified bias and precision to enable detection of impacts, success of BMPs, and ability to distinguish these from natural variation; and
- Require regular analysis and reporting of data to oversight agencies, including submittal of a sampling and quality assurance plan for agency approval.

We recommend that the monitoring programs be described in the EIS and that the EIS also discuss public participation, and how the public can get information on mitigation effectiveness and monitoring results.

### Adaptive Management Planning

We recommend that the EIS utilize adaptive management and contingency planning to describe the strategy for responding to unforeseen circumstances at the site. The strategy should include “trigger levels” (e.g., exceedance of ecological benchmarks) or observations (e.g., statistically significant trends in indicators, permit violations, water balance problems, changes in discharge or chemistry of springs/seeps) that would set follow-up actions into motion. This strategy or plan should be described so that reviewers may comment on its adequacy. This type of plan, when coupled with the monitoring program, is necessary to mitigate for uncertainties and risks associated with predictions of

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<sup>50</sup> 40 C.F.R. § 230.10(a), (d); See Memorandum of Agreement between U.S. Department of Army and the Environmental Protection Agency on the Determination of Mitigation Under the Clean Water Act Section 404(b)(1) Guidelines.

<sup>51</sup> [https://ceq.doe.gov/docs/ceq-regulations-and-guidance/Mitigation\\_and\\_Monitoring\\_Guidance\\_14Jan2011.pdf](https://ceq.doe.gov/docs/ceq-regulations-and-guidance/Mitigation_and_Monitoring_Guidance_14Jan2011.pdf).



environmental outcomes, and will provide an early warning system of unexpected outcomes.

## **FINANCIAL ASSURANCE**

NEPA provides for the disclosure of all information concerning the environmental consequences of a proposed action to agency decision makers and the public before decisions are made and actions are taken. A key component in determining the environmental impacts of a mining project is the effectiveness of the closure and reclamation activities, including long-term water management. In turn, whether any closure and reclamation activities that may be necessary will be adequately funded is key to determining whether those activities will be effective. We therefore recommend that the project's ability to self-fund, and/or any third-party financial assurance mechanisms, be disclosed. Disclosure of the financial assurance amount and mechanism is particularly important for this project given that PLP's proposal includes long term water management and treatment.

We recommend that the draft EIS disclose the estimated costs to reclaim and close the site in a manner that achieves reclamation goals and post-mining land use objectives. The EPA recommends that the final EIS identify proposed financial assurance mechanisms and demonstrate that these mechanisms would ensure that necessary reclamation work is completed.

The EPA is available for further conversations about the level of detail to include in the document. Below are the main elements that we believe should be disclosed in the EIS:

### **1. Site Reclamation** (facility closure, earth moving/stabilization, revegetation, etc.):

- Phases of reclamation;
- Estimated cost (+/- percent) to reclaim and close the site in a manner that achieves reclamation goals and post-mining land use objectives;
- Criteria for determining success of reclamation activities for financial assurance release; and
- Costs associated with implementing contingency measures to address reasonably foreseeable but not specifically predicted outcomes.

### **2. Long-Term Site Management** (post-closure water treatment, mitigation of impacts to aquatic resources, site maintenance, and monitoring):

- Itemized cost estimate (including reasonable contingencies) and appropriate economic variables to calculate the net present value of future expenses; and
- If a trust fund is utilized, address the "mechanics" of the fund, including:
  - Trust fund mechanism (e.g., current value trust, net present value trust, etc.);
  - Requirements for timing of payments into the trust fund;
  - How the Corps would ensure that the trust fund or other financial assurance could not be claimed by a creditor in the case of bankruptcy;
  - Acceptable financial instruments;
  - How trust management fees and taxes will be paid;
  - Identity of the trust fund beneficiaries; and
  - Identity of the operator with responsibility/liability for financial assurance.

Message

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**From:** Allnutt, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6E28F5BF9CBF4B8B9EDA7751C2F10750-ALLNUTT, DAVID]  
**Sent:** 6/26/2018 4:40:37 PM  
**To:** Kaiser, Russell [Kaiser.Russell@epa.gov]  
**CC:** Barnhart, Megan [barnhart.megan@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]  
**Subject:** Re: Pebble Letter.

Please ensure you're working off the correct version of the letter. Molly currently has the pen.

Sent from my iPhone

On Jun 26, 2018, at 9:25 AM, Kaiser, Russell <[Kaiser.Russell@epa.gov](mailto:Kaiser.Russell@epa.gov)> wrote:

Megan,

# Deliberative Process / Ex. 5

Thanks

Russell L. Kaiser  
Chief, Freshwater and Marine Regulatory Branch  
Oceans, Wetlands and Communities Division  
Office of Wetlands, Oceans and Watersheds  
1301 Constitution Ave., N.W.  
Room 7114B West Bldg.  
Washington, DC 20004  
P: 202.566.0963  
C: 202.579.0421

Message

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**From:** Allnutt, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6E28F5BF9CBF4B8B9EDA7751C2F10750-ALLNUTT, DAVID]  
**Sent:** 4/12/2018 12:24:22 AM  
**To:** Kelly, Christine M [kelly.christinem@epa.gov]  
**Subject:** please add Krista to our bi-weekly Wednesday Bristol Bay check-ins ...  
**Attachments:** ATT40973; ATT55522; ATT51323; ATT05212; ATT61918; ATT35536; ATT47874

... starting with the next one. Thanks.



**R. David Allnutt**, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581



Message

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**From:** Allnutt, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6E28F5BF9CBF4B8B9EDA7751C2F10750-ALLNUTT, DAVID]  
**Sent:** 6/29/2018 8:15:04 PM  
**To:** Vaughan, Molly [Vaughan.Molly@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]  
**Subject:** FW: Draft language

Re: Pebble scoping. I know you were tracking the climate change section and the language therein. Final language is below. We can discuss how we got there next week.

The final letter should be coming your way soon.



**R. David Allnutt**, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581

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**From:** Feeley, Drew (Robert)  
**Sent:** Friday, June 29, 2018 1:00 PM  
**To:** Allnutt, David <Allnutt.David@epa.gov>; Tomiak, Robert <tomiak.robert@epa.gov>  
**Cc:** Knight, Kelly <knight.kelly@epa.gov>  
**Subject:** RE: Draft language

That language looks good. Thanks for your help, David.

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**From:** Allnutt, David  
**Sent:** Friday, June 29, 2018 3:56 PM  
**To:** Feeley, Drew (Robert) <Feeley.Drew@epa.gov>; Tomiak, Robert <tomiak.robert@epa.gov>  
**Cc:** Knight, Kelly <knight.kelly@epa.gov>  
**Subject:** RE: Draft language

Drew -- I am finalizing the scoping letter and received the following language (in a very round-about way) after the exchange below. It is different from (but similar to) the language attached to Drew's message of last night, but am presuming that it is final and approved and inserting into the letter. Approaching COB, so please let me know if direction is otherwise.

### Climate Adaptation

EPA recommends that the EIS include a discussion of reasonably foreseeable effects that changes in the climate may have on the proposed project and the project area, including its long term infrastructure. This could help inform the development of measures to improve the resilience of the proposed project. If projected changes could notably exacerbate the environmental impacts of the project, EPA recommends these impacts also be considered as part of the NEPA analysis.



R. David Allnutt, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581

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**From:** Feeley, Drew (Robert)  
**Sent:** Thursday, June 28, 2018 1:59 PM  
**To:** Tomiak, Robert <[tomiak.robert@epa.gov](mailto:tomiak.robert@epa.gov)>  
**Cc:** Knight, Kelly <[knight.kelly@epa.gov](mailto:knight.kelly@epa.gov)>; Allnutt, David <[Allnutt.David@epa.gov](mailto:Allnutt.David@epa.gov)>  
**Subject:** RE: Draft language

Thanks! It's not final yet. Will forward when that happens.

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**From:** Tomiak, Robert  
**Sent:** Thursday, June 28, 2018 4:58 PM  
**To:** Feeley, Drew (Robert) <[Feeley.Drew@epa.gov](mailto:Feeley.Drew@epa.gov)>  
**Cc:** Knight, Kelly <[knight.kelly@epa.gov](mailto:knight.kelly@epa.gov)>; Allnutt, David <[Allnutt.David@epa.gov](mailto:Allnutt.David@epa.gov)>  
**Subject:** Fwd: Draft language

Including David.....

I have no objections to the version attached.

Thanks, Rob

Begin forwarded message:

**From:** "Feeley, Drew (Robert)" <[Feeley.Drew@epa.gov](mailto:Feeley.Drew@epa.gov)>  
**Date:** June 28, 2018 at 4:56:05 PM EDT  
**To:** "Knight, Kelly" <[knight.kelly@epa.gov](mailto:knight.kelly@epa.gov)>, "Tomiak, Robert" <[tomiak.robert@epa.gov](mailto:tomiak.robert@epa.gov)>  
**Subject:** Draft language

Message

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**From:** Allnutt, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6E28F5BF9CBF4B8B9EDA7751C2F10750-ALLNUTT, DAVID]  
**Sent:** 6/29/2018 8:08:53 PM  
**To:** Kelly, Christine M [kelly.christinem@epa.gov]  
**CC:** McGrath, Patricia [mcgrath.patricia@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]  
**Subject:** final letter for formatting  
**Attachments:** Pebble Project Scoping 062818 compiled draft-rda.docx; ATT65316; ATT65412; ATT25900; ATT22320

Patty to transmit to Corps once signed and pdf'd.



Pebble Project  
Scoping 062818 ...



---

**R. David Allnutt**, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581

---

Message

**From:** Allnutt, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6E28F5BF9CBF4B8B9EDA7751C2F10750-ALLNUTT, DAVID]  
**Sent:** 11/14/2018 12:05:41 AM  
**To:** Hladick, Christopher [hladick.christopher@epa.gov]  
**Subject:** background materials  
**Attachments:** Pebble-Bristol Bay 404(c)\_Options for additional public comment\_3-2-18\_final.docx; BB Presentation\_1282018\_pm\_ACP.PPTX; ATT23962; ATT75725; ATT99943; ATT95885

Chris – I found the two attached documents useful in beginning to wrap my head around the questions surrounding next steps for our Pebble 404(c) determination.

The Word document is the paper we used to brief you, Lee, and David Fotouhi last March regarding how to implement Administrator Pruitt's commitment to hold an additional public comment period on the proposal to withdraw the PD. It

## Deliberative Process / Ex. 5

The PowerPoint document is the most recent (Feb. 2018) version of the background materials used for leadership briefings on Bristol Bay. (You and Lee saw earlier versions of this presentation in 2017).

### Deliberative Process / Ex. 5

The options I think we'd present would be:

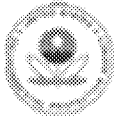
## Deliberative Process / Ex. 5



Pebble-Bristol Bay  
404(c)\_Options f...



BB  
Presentation\_12...



**R. David Allnutt**, Director  
Office of Environmental Review and Assessment  
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1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581

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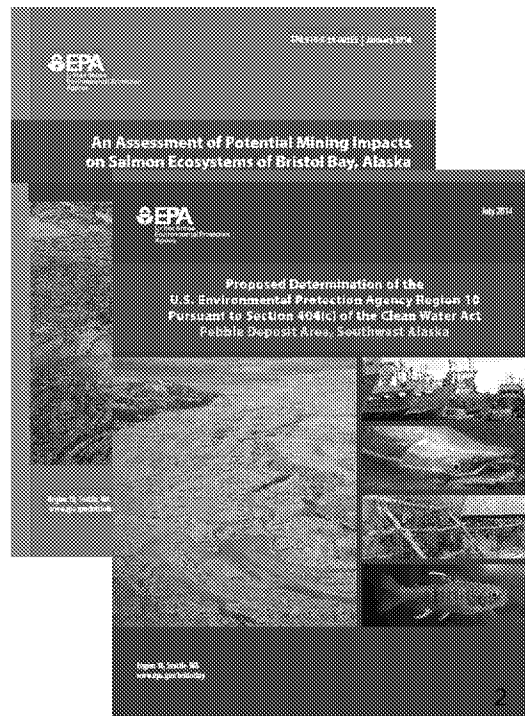
DRAFT

# ***EPA's Work in the Bristol Bay Watershed***

Presentation for Office of Federal Activities  
January 31, 2018



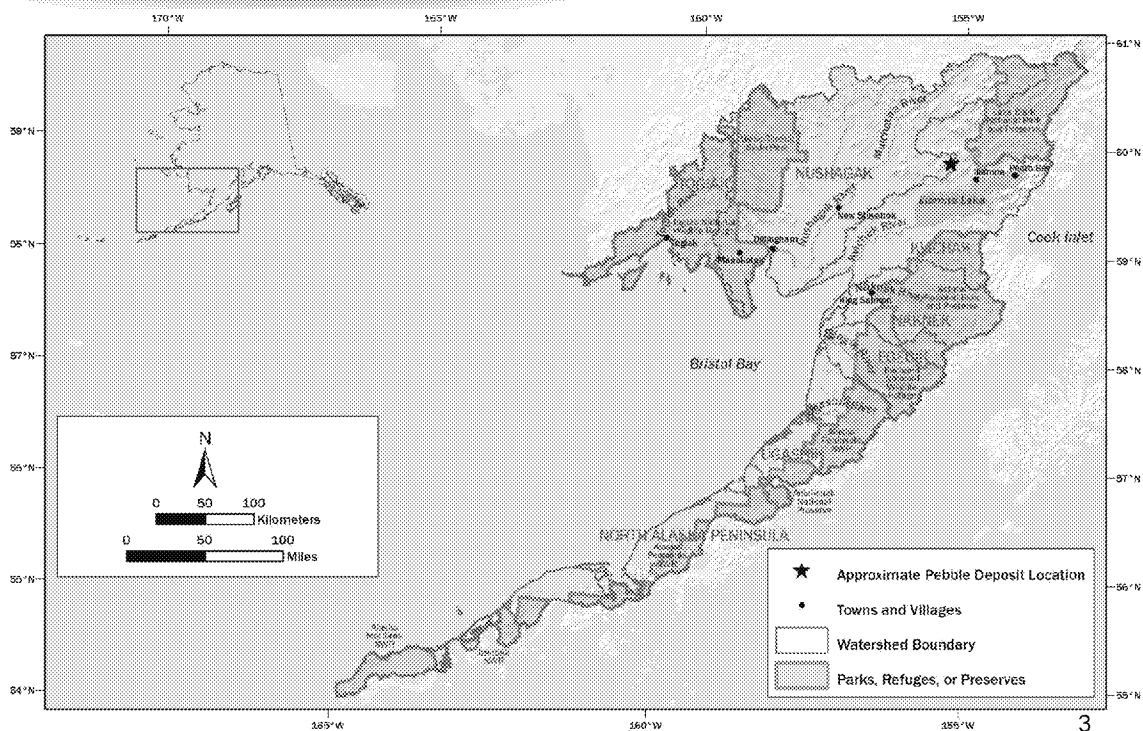
- EPA's Involvement History
- Science
- Section 404(c) Regulatory Response
- Section 404 Permitting and NEPA



# Bristol Bay Watershed



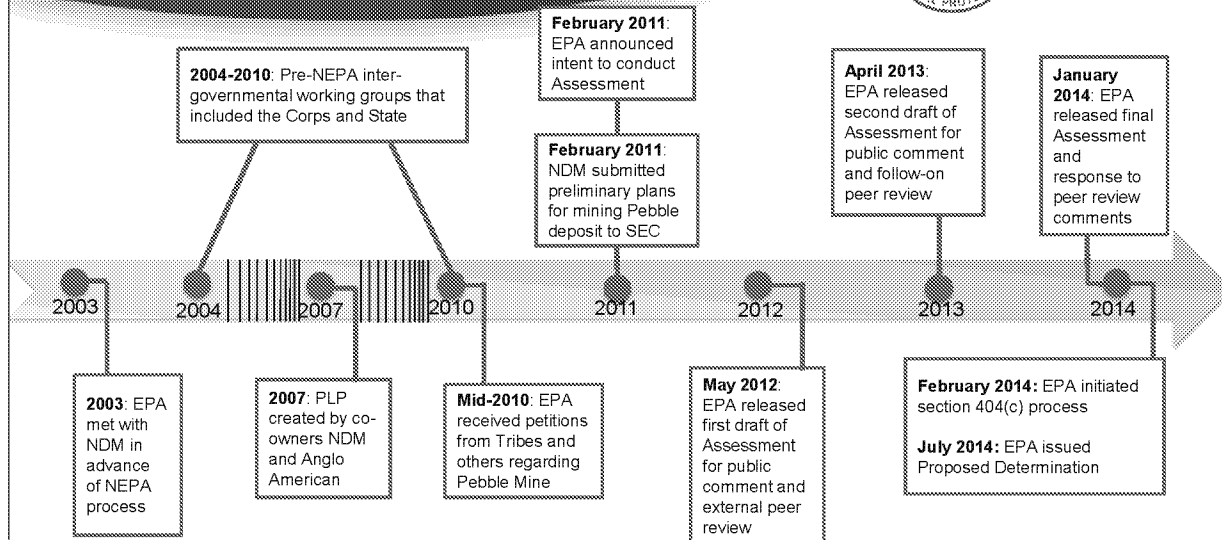
DRAFT



# Timeline 2003 - 2014



DRAFT

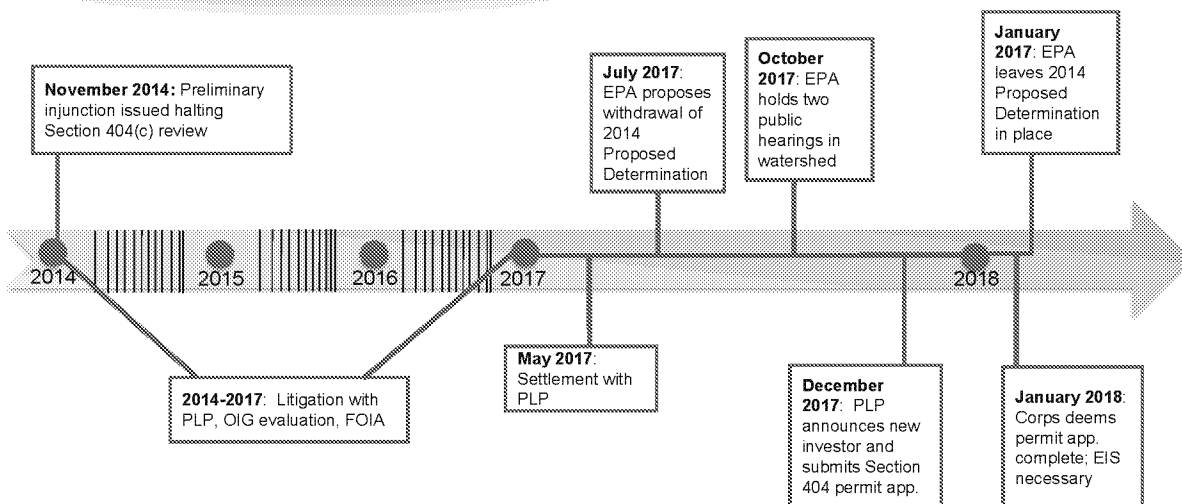


NDM = Northern Dynasty Minerals Ltd.  
 PLP = Pebble Limited Partnership  
 NEPA = National Environmental Policy Act  
 SEC = U.S. Securities and Exchange Commission

# Timeline 2014 - Present



DRAFT



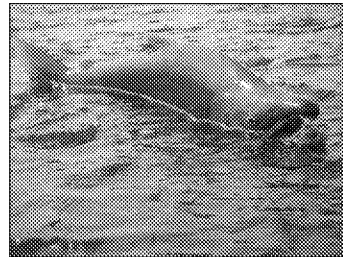
OIG = EPA Office of Inspector General  
 PLP = Pebble Limited Partnership  
 Corps = U.S. Army Corps of Engineers  
 EIS = Environmental Impact Statement

# Bristol Bay Watershed Assessment



DRAFT

- **Purpose:**
  - Characterize the biological and mineral resources of the Bristol Bay watershed
  - Increase understanding of the potential impacts of large-scale mining on the region's fish resources
  - Inform future decision-making
- **Scientific Ecological Risk Assessment evaluating potential impacts associated with:**
  - Large-scale mine construction and operation
  - Accidents and failures
- **Three-year scientific assessment effort**
  - Independent external peer review
  - Stakeholder and public engagement
    - 8 public meetings
    - 2 rounds of public comment – over 1.1 million comments
  - Tribal consultations



# Bristol Bay Watershed Resources



DRAFT

## Biological Resources:

- Bristol Bay produces almost half of world's sockeye salmon
- Kvichak watershed world's largest producer of sockeye salmon
- Nushagak watershed frequently at or near world's largest producer of Chinook salmon

### Biological Resources Support:

- 14,000 jobs, generates \$480 million annually in direct economic expenditures and sales
  - Salmon fishery valued at \$1.5 billion annually
- 4,000-year-old subsistence fishery for Alaska Natives

## Geological Resources:

- At least 10 claims with more than minimal exploration, including Pebble.
- Pebble deposit: low-grade, with copper, gold, and molybdenum
- According to NDM, Pebble could:
  - Be largest mine of its type in North America
  - Produce 3,000 jobs in AK
  - Contribute \$2.7 billion to US GDP annually
- Economics of mining the Pebble deposit are speculative
- Since 2001, four major mining companies have walked away from Pebble project

# Bristol Bay Watershed Assessment



- Mining scenarios informed by NDM plans submitted to U.S. Securities and Exchange Commission (SEC) in 2011
- Uses 3 potential stages of mine development at Pebble deposit
  - 0.25-billion-ton mine (worldwide median size porphyry copper deposit)
  - 2.0-billion-ton mine (smallest mine size proposed by NDM to SEC)
  - 6.5-billion-ton mine (largest mine size proposed by NDM to SEC)
- NDM says deposit is nearly 12 billion tons



# Bristol Bay Watershed Assessment



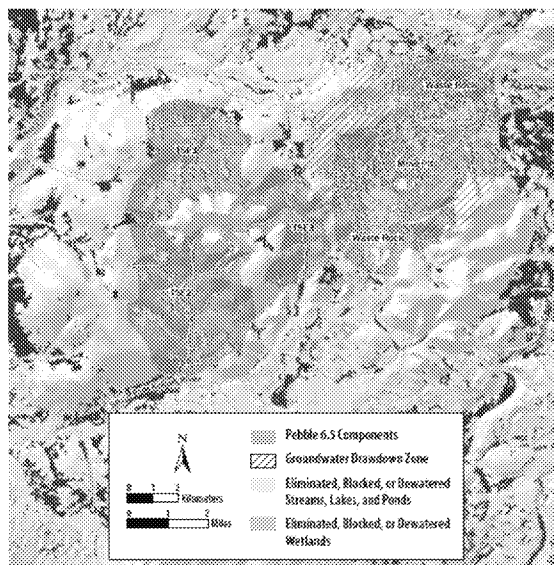
DRAFT

## Mine Footprint Impacts:

- 24-94 miles of salmon-supporting streams destroyed
- 1,300-5,350 acres of wetlands, ponds, lakes destroyed
- 9-33 miles of salmon-supporting streams with altered streamflow likely to affect ecosystem structure and function

## Other Impacts:

- Tailings dams need maintenance in perpetuity
- Routine operations and accidents would increase impacts on salmon habitat quality, both at the mining site and along the 86-mile transportation corridor.





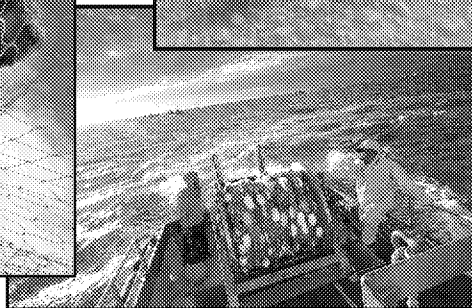
- § 404(a) authorizes the Secretary of the Army to issue **permits**
  - For the discharge of dredged or fill material into waters of the U.S. at specified disposal sites
- § 404(b) directs the Secretary of the Army to apply **environmental criteria** developed by EPA when specifying disposal sites
  - § 404(b)(1) Guidelines [40 CFR Part 230]
- § 404(c) authorizes EPA to prohibit, deny or restrict (withdraw) the placement of dredged or fill material at defined sites in waters of the U.S.

# Limits of Section 404(c)



DRAFT

- **Whenever** it determines, after notice and opportunity for public hearing, that the discharge of such materials into such area will have an **unacceptable adverse effect(s)** on:
  - Municipal water supplies; or
  - Shellfish beds and **fishery areas**; or
  - Wildlife; or
  - Recreation areas.



# Pebble Deposit 404(c) Process



DRAFT

## Step 1

- 2/28/14: **Initiation by EPA Region 10 – “15-day letter”**
- Consulted with Corps, NDM/PLP, and State

## Step 2

- 7/18/14: **Proposed Determination** released (PD) by EPA Region 10
- 8/12-15/14: 7 public hearings in Alaska
- > 670,000 written comments; > 99% (86% unique) supported Proposed Determination

## Step 3

- EPA Region 10 will review the public comments
- EPA Region 10 will withdraw PD or prepare **Recommended Determination** (RD)

## Step 4

- **Final Determination (FD) by EPA Assistant Administrator for Water**
- Consult again with Corps, NDM/PLP, and State
- Within 60 days of receipt of RD, issue FD affirming, modifying, or rescinding RD

# What Are the Proposed Restrictions?



DRAFT

Restrict the discharge of dredged or fill material related to mining the Pebble deposit into waters of the U.S. that would, individually or collectively, result in the following:

**1. Loss of Streams.**

- a. The loss of 5 or more linear miles of streams with documented anadromous fish occurrence; **or**
- b. The loss of 19 or more linear miles of streams where anadromous fish are not currently documented, but that are tributaries of streams with documented anadromous fish occurrence; **or**

**2. Loss of Wetlands, Lakes, and Ponds.** The loss of 1,100 or more acres of wetlands, lakes, and ponds contiguous with either streams with documented anadromous fish occurrence or tributaries of those streams; **or**

**3. Streamflow Alterations.** Streamflow alterations greater than 20% of daily flow in 9 or more linear miles of streams with documented anadromous fish occurrence

# Response to Section 404(c) Proceeding



DRAFT

- **Office of Inspector General (OIG) Review**
  - 17-month in-depth evaluation found no evidence of bias or a pre-determined outcome
  - Possible misuse of position for retired Region 10 employee noted
- **PLP broad Freedom of Information Act (FOIA) requests**
  - Approximately 18,000 documents produced
- **PLP filed three lawsuits in 2014**
  - Administrative Procedure Act (APA) challenge to initiation of 404(c) process
  - FOIA litigation
  - Federal Advisory Committee Act (FACA) litigation
- **May 2017 settlement agreement**
  - Resolved FOIA and FACA litigation and PLP's outstanding FOIA requests



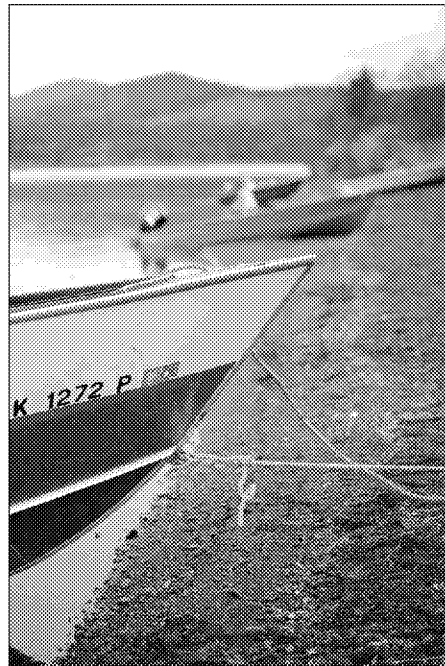
- Key terms of the May 11, 2017 settlement agreement between PLP and EPA:
  - EPA may use its Bristol Bay Watershed Assessment without limitation
  - EPA agrees to initiate a process to propose to withdraw its 2014 Proposed Determination by July 11, 2017
  - EPA agrees not to forward a Recommended Determination (the next step in the 404(c) review process) to EPA HQ until a Final EIS is noticed for the project or May 11, 2021, whichever is earlier
  - PLP drops remaining lawsuits and fee requests against EPA and agrees to file no new FOIA requests during the 2.5- to 4-year hiatus period

# Proposal to Withdraw 2014 Proposed Determination



DRAFT

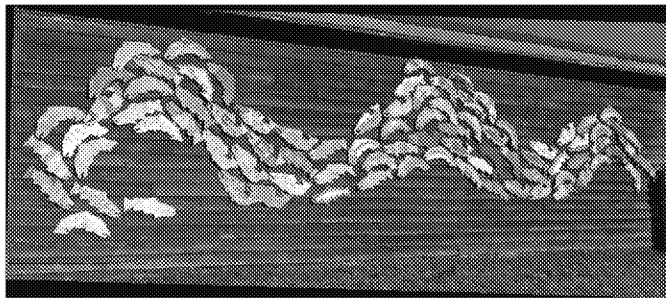
- July 2017: Withdrawal proposed based on policy rationale
  - EPA did not solicit comment on the proposed restrictions or on science or technical information underlying the Proposed Determination
- Outreach and Consultation
  - Proposal generated >1 million comments (~99% opposed)
  - 2 public hearings in watershed
  - Tribal and ANCSA Consultation
    - 16 tribal governments and 1 ANCSA Regional Corp. opposed
    - 1 tribal government and 2 ANCSA Village Corps. supported







- EPA decided not to withdraw and suspended Section 404(c) process pending further review
- Settlement agreement obligations
  - EPA can issue a new/modified Proposed Determination at any time
  - EPA Region 10 cannot forward a Recommended Determination to EPA HQ until May of 2021 or until a final EIS is noticed, whichever comes first



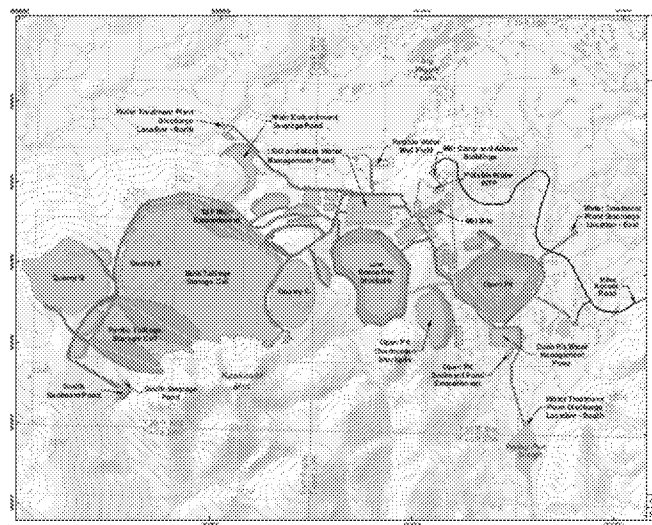


- PLP filed Department of Army (DA) permit application to the Corps in December 2017
  - Includes CWA 404 and RHA Section 10
  - Includes Project Description: mine, power supply, transportation
- Corps deemed application sufficient to begin NEPA



Pebble deposit area

- 1.1 billion tons of ore mined over 20 years
- 160,000 tons/day of ore processed to produce:
  - Copper concentrate
  - Molybdenum concentrate
  - Gold via gravity separation
- Open pit mine, ore storage pile, 2 tailings impoundments
- 2 water treatment plants and 3 discharge outfalls
- Closure
  - PAG waste rock backfilled into open pit
  - Dry closure of tailings
  - Long-term water treatment



# Project Description

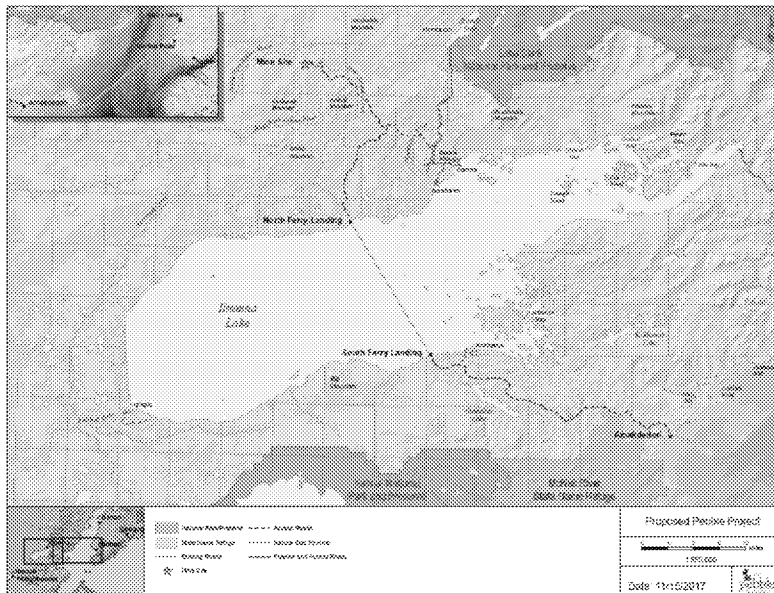


## Power

- 230 MW power plant at mine site
- 188 mile natural gas pipeline

## Transportation

- 65 miles of roads
- Ferry across Lake Illiamna
- Cook Inlet port site & dredge disposal site



# Project Description



DRAFT

- Proposed mine is:
  - Smaller than 2011 Preliminary Assessment to SEC
  - Larger than the EPA Assessment's 0.25 billion ton mine scenario, which is the basis for the 2014 Proposed Determination

| 2014 Proposed Determinations  |
|---|
| Loss of 5 or more miles of streams with anadromous fish; or   |
| Loss of 19 or more miles of streams that are tributaries of anadromous fish streams; or   |
| Loss of 1100 or more acres of wetlands, lakes and ponds contiguous with streams or tributaries to streams that have anadromous fish; or |
| Stream flow alteration > 20% of daily flow in 9 or more miles of streams with anadromous fish   |

| 2017 DA Application                           |                 |
|---|-----------------|
| component                                     | wetlands filled |
| Mine site                                     | 3190            |
| Transportation (roads, ferry terminals, port) | 480             |
| Pipeline                                      | 408             |
| TOTAL   | 4078            |

- Differences from 2011 Preliminary Assessment and EPA's Assessment:
  - Less waste rock mined
  - No cyanide leaching
  - Liners (pyritic tailings and low grade ore stockpile)
  - Advanced water treatment and "Physical Habitat Simulation System" to mitigate dewatering
  - Compensatory mitigation - TBD
- Project description could evolve during EIS and 404 review



- Corps issued informational Public Notice of application (January 5, 2018)
  - Did not request public comment at this time
- Corps invited EPA to be EIS cooperating agency
  - Currently proposing to limit EPA's involvement to Section 404(b)(1) issues
  - Framework for coordination is atypical
  - EPA requested higher-level meeting to discuss
- Proposed schedule
  - Notice of Intent/EIS scoping in spring 2018
  - Final EIS by end of 2020
  - DA Application (CWA 404) public notice with Draft or Final EIS
  - FAST-41 considerations

# Potential NEPA Cooperating Agencies



DRAFT

- Federal
  - DOT Pipeline and Hazardous Materials Safety Administration (TBD)
  - US Coast Guard
  - DOI Bureau of Safety and Environmental Enforcement
  - US Fish and Wildlife Service
  - National Marine Fisheries Service
  - EPA
- State
  - Alaska Department of Natural Resources Office of Project Management and Permitting coordinates state agencies (ADNR, ADEC, ADFG, SHPO)
- Local Governments
  - Lake & Peninsula Borough & Kenai Peninsula Borough
- Tribes
  - Corps sent consultation letters to 35 tribal governments
  - Corps has not yet solicited tribes interest in participating as cooperating agency

# EPA Response to Permit Application



DRAFT

- **EPA Role**
  - **NEPA**
    - Potentially a cooperating agency
    - CAA 309 review of the Draft EIS
  - **Clean Water Act**
    - CWA 404 permit application & 404(b)(1) review
    - Oversight of State CWA 402 Alaska Pollutant Discharge Elimination System Permit
  - **Clean Air Act**
    - Oversight of State Air Quality Permit
- **EPA has developed a cross-programmatic, multi-disciplinary team**
- **Next Steps**
  - Resolve cooperating agency status
  - EIS scoping



# Questions



DRAFT



Upper Talarik Creek, one of three streams flowing from the Pebble deposit site

25

Message

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**From:** Allnutt, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6E28F5BF9CBF4B8B9EDA7751C2F10750-ALLNUTT, DAVID]  
**Sent:** 11/10/2018 2:43:52 AM  
**To:** R10-ORA [R10-ORA@epa.gov]  
**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]; Linda Anderson-Carnahan (Anderson-Carnahan.Linda@epa.gov) [Anderson-Carnahan.Linda@epa.gov]  
**Subject:** R10 ORA Briefing Paper for Meet and Greet with Col Borders.docx  
**Attachments:** R10 ORA Briefing Paper and Talking Points Chris Meet and Greet with Col Borders.docx

Pam – attached is the final briefing paper for Chris’s visit with the Colonel next Friday. Thanks.

Becky – this version should match the one on your OneDrive. I’ve revised slightly today.



R10 ORA Briefing  
Paper and Talkin...

Message

---

**From:** Allnutt, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6E28F5BF9CBF4B8B9EDA7751C2F10750-ALLNUTT, DAVID]  
**Sent:** 11/9/2018 12:40:46 AM  
**To:** Hladick, Christopher [hladick.christopher@epa.gov]  
**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Pirzadeh, Michelle [Pirzadeh.Michelle@epa.gov]  
**Subject:** R10 ORA Briefing Paper and Talking Points Chris Meet and Greet with Col Borders.docx  
**Attachments:** R10 ORA Briefing Paper and Talking Points Chris Meet and Greet with Col Borders.docx

Chris – an early preview of a briefing paper for you to prep for next Friday’s conversation with Colonel Borders. You should not feel compelled to review now; we can discuss during our meeting scheduled for 1pm tomorrow, and I’ll make sure that a final version is included in the packet you take to Alaska next week.

I understand that Sue is accompanying you to the meeting with the Colonel. Am cc’ing her and have invited her to join our discussion tomorrow.



R10 ORA Briefing  
Paper and Talkin...

## Appointment

---

**From:** Allnutt, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6E28F5BF9CBF4B8B9EDA7751C2F10750-ALLNUTT, DAVID]  
**Sent:** 11/8/2018 10:14:38 PM  
**To:** Detwiler, Susan K. [detwiler.susan@epa.gov]  
**Subject:** FW: Discussion USACE MOU / Pebble  
**Location:** Chris' Office  
  
**Start:** 11/9/2018 9:00:00 PM  
**End:** 11/9/2018 9:45:00 PM  
**Show Time As:** Tentative

Sue – as discussed.

-----Original Appointment-----

**From:** Hladick, Christopher  
**Sent:** Monday, November 05, 2018 9:30 AM  
**To:** Hladick, Christopher; Allnutt, David  
**Subject:** Discussion USACE MOU / Pebble  
**When:** Friday, November 09, 2018 1:00 PM-1:45 PM (UTC-08:00) Pacific Time (US & Canada).  
**Where:** Chris' Office

Message

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**From:** Allnutt, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6E28F5BF9CBF4B8B9EDA7751C2F10750-ALLNUTT, DAVID]  
**Sent:** 11/8/2018 3:01:48 AM  
**To:** Vaughan, Molly [Vaughan.Molly@epa.gov]  
**CC:** McGrath, Patricia [mcgrath.patricia@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]  
**Subject:** FW: Comments Sections 3.1\_3.5\_4.1\_4.5 Draft 110618.docx  
**Attachments:** Comments Sections 3.1\_3.5\_4.1\_4.5 Draft 110618.docx

Molly – I understand that this is due to the Corps on Tuesday. Are you and/or others on this email available to discuss before it's submitted? Want to (1) convey discussions I've had with ORC and OFA about this overall effort; and (2) make sure I understand the RFFA issues presented.



R. David Allnutt, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581

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**From:** Nogi, Jill  
**Sent:** Wednesday, November 07, 2018 3:55 PM  
**To:** Allnutt, David <Allnutt.David@epa.gov>  
**Cc:** Vaughan, Molly <Vaughan.Molly@epa.gov>  
**Subject:** Comments Sections 3.1\_3.5\_4.1\_4.5 Draft 110618.docx

David,  
Here's the draft table – please take a look and feel free to let Molly and I know if there's anything else to say before this goes out on 11/13.  
Jill

Message

---

**From:** Allnutt, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6E28F5BF9CBF4B8B9EDA7751C2F10750-ALLNUTT, DAVID]  
**Sent:** 11/6/2018 1:10:00 AM  
**To:** Hladick, Christopher [hladick.christopher@epa.gov]  
**CC:** Pirzadeh, Michelle [Pirzadeh.Michelle@epa.gov]  
**Subject:** message to Henry  
**Attachments:** ATT03059; ATT56904; ATT41735; ATT54034

Chris – when we met last week, you asked me to draft a short email to Henry proposing to meet and provide background on Pebble. Below is a draft for your consideration. Let me know if you have questions.

+++++

# Deliberative Process / Ex. 5



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**R. David Allnutt**, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581

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Message

**From:** Allnutt, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6E28F5BF9CBF4B8B9EDA7751C2F10750-ALLNUTT, DAVID]  
**Sent:** 4/11/2018 6:32:12 PM  
**To:** Mendelman, Krista [Mendelman.Krista@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]  
**Subject:** FW: RA briefing updates  
**Attachments:** OERA Office Briefing for Hladick-FINAL.pptx; Briefing Book for Regional Administrator December 13 2017.pdf; 404 overview for Region 10 RA.pptx; BB Presentation\_Hladick\_120517.pptx; ATT92620; ATT14749; ATT98461; ATT48608; ATT73169; ATT92551; ATT51687; ATT93924; ATT64595; ATT85812; ATT11058; ATT49950; ATT22100; ATT04958

For Krista, in particular, below are some materials that might be useful for getting up to speed on some of the issues currently front and center before OERA and ARU. Each of the four documents attached is something we've shared with Chris H. over the past few months to get him up to speed.



404 overview for  
Region 10 RA.pptx



BB  
Presentation\_Hla...



**R. David Allnutt**, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581



---

**From:** Allnutt, David  
**Sent:** Monday, December 18, 2017 4:12 PM  
**To:** R10-OERA <R10-OERA@epa.gov>  
**Subject:** RA briefing updates

OERA – at last week's all-staff meeting, we discussed the ongoing efforts to get our new Regional Administrator informed about our office and the numerous issues pending before us. The purpose of this email is to pass on some of the materials related to this effort.

You may have seen the InfoPage announcement that the briefing book that we prepared for the incoming RA is now posted on the Office of Regional Administrator's SharePoint site. I've also attached it to this message. Thanks to all who helped me compile and update the content in the OERA section of the book. I think the book came out well, and I may use all or portions of it in the future to introduce Region 10 or our office to external parties.

As I mentioned at the all-staff, I've participated in three introductory RA briefings so far: an introduction to OERA; an overview of the CWA § 404 program; and an overview of EPA's work to protect the Bristol Bay watershed from the impacts of large-scale mining. This week I'm scheduled to participate in RA briefings on Waters of the U.S./Puget Sound High Tide Line and EPA's Scientific Integrity Policy. Attached to this email is the presentation I used for the OERA office

overview; like the briefing book, you might find it useful for introducing our office's structure and functions to an outside party.



Briefing Book for  
Regional Admini...



OERA Office  
Briefing for Hladi...



**R. David Allnutt**, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 900  
Seattle, Washington 98101-3140  
(206) 553-2581

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# **Clean Water Act Section 404**

Overview for Region 10  
Regional Administrator Hladick  
December 6, 2017

**Non-Responsive: Unrelated to Bristol Bay/Pebble Mine**

**Non-Responsive: Unrelated to Bristol Bay/Pebble Mine**

**Non-Responsive: Unrelated to Bristol Bay/Pebble Mine**

**Non-Responsive: Unrelated to Bristol Bay/Pebble Mine**

**Non-Responsive: Unrelated to Bristol Bay/Pebble Mine**

**Non-Responsive: Unrelated to Bristol Bay/Pebble Mine**

**Non-Responsive: Unrelated to Bristol Bay/Pebble Mine**



**Non-Responsive: Unrelated to Bristol Bay/Pebble Mine**

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**Non-Responsive: Unrelated to Bristol Bay/Pebble Mine**



Photo by Paul Gibson

**Non-Responsive – Material Unrelated to Bristol Bay/Pebble Mine**



**Non-Responsive: Unrelated to Bristol Bay/Pebble Mine**

**Non-Responsive: Unrelated to Bristol Bay/Pebble Mine**

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# ***EPA's Work in the Bristol Bay Watershed***

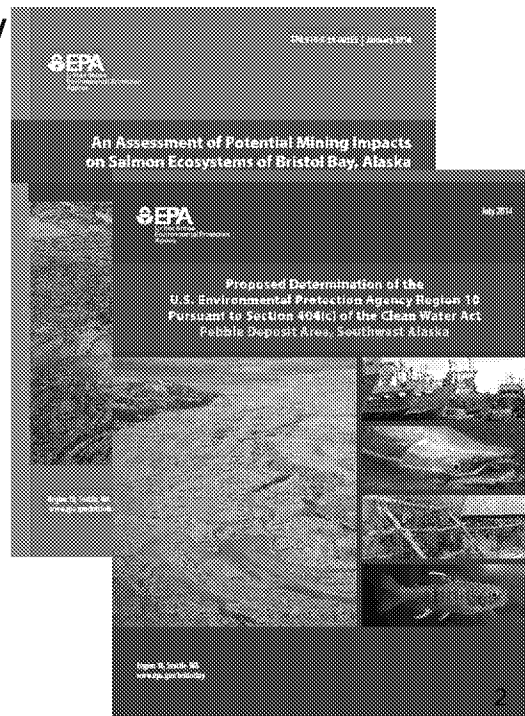
Presentation for Regional Administrator Hladick  
December 7, 2017

# Overview



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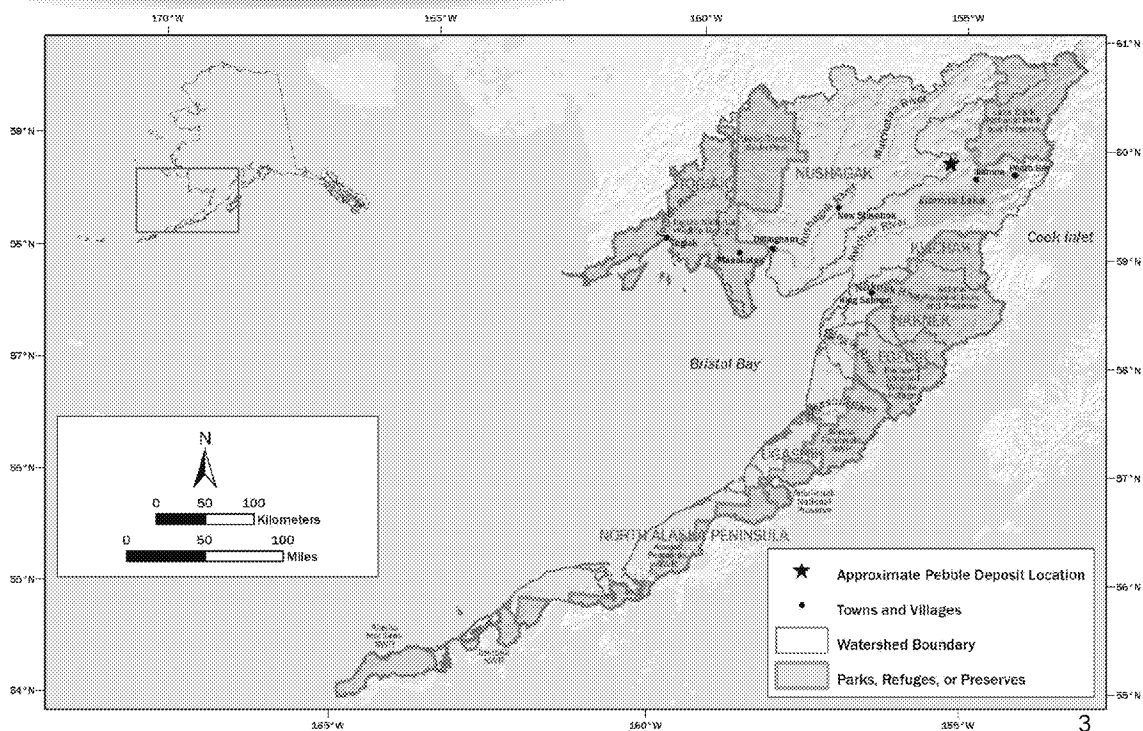
- EPA's Involvement History
- Science
- Regulatory Response
- Litigation/Settlement
- Withdrawal Proposal
- Next Steps



# Bristol Bay Watershed



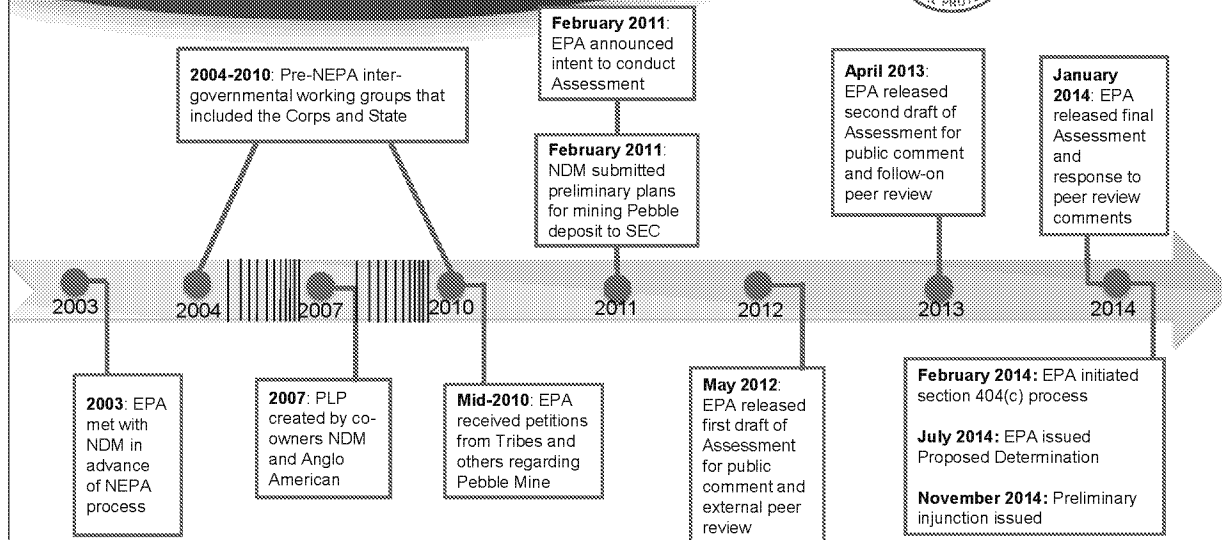
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# Timeline 2003 - 2014



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NDM = Northern Dynasty Minerals Ltd.  
 PLP = Pebble Limited Partnership  
 NEPA = National Environmental Policy Act  
 SEC = U.S. Securities and Exchange Commission

# Bristol Bay Watershed Assessment



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- **Purpose:**
  - Characterize the biological and mineral resources of the Bristol Bay watershed
  - Increase understanding of the potential impacts of large-scale mining on the region's fish resources
  - Inform future decision-making
- **Scientific Ecological Risk Assessment evaluating potential impacts associated with:**
  - Large-scale mine construction and operation
  - Accidents and failures
- **Three-year scientific assessment effort**
  - Independent external peer review
  - Stakeholder and public engagement
    - 8 public meetings
    - 2 rounds of public comment – over 1.1 million comments
  - Tribal consultations



# Bristol Bay Watershed Resources



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## Biological Resources:

- Bristol Bay produces almost half of world's sockeye salmon
- Kvichak watershed world's largest producer of sockeye salmon
- Nushagak watershed frequently at or near world's largest producer of Chinook salmon

## Biological Resources Support:

- 14,000 jobs, generates \$480 million annually in direct economic expenditures and sales
  - Salmon fishery valued at \$1.5 billion annually
- 4,000-year-old subsistence fishery for Alaska Natives

## Geological Resources:

- At least 10 claims with more than minimal exploration, including Pebble.
- Pebble deposit: low-grade, with copper, gold, and molybdenum
- According to NDM, Pebble could:
  - Be largest mine of its type in North America
  - Produce 3,000 jobs in AK
  - Contribute \$2.7 billion to US GDP annually
- Economics of mining the Pebble deposit are speculative
- Since 2001, four major mining companies have walked away from Pebble project



# Bristol Bay Watershed Assessment



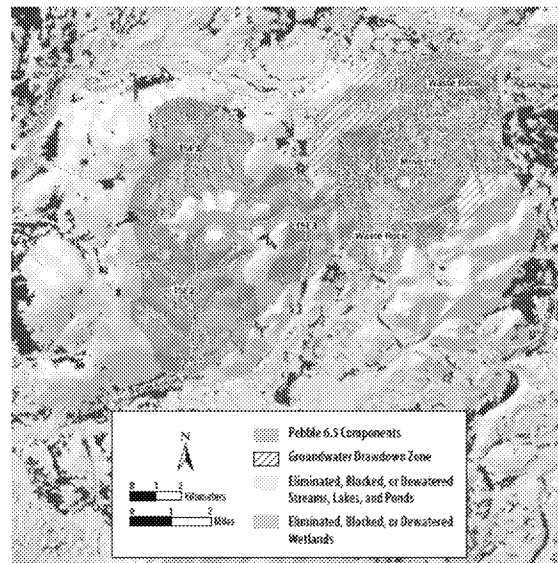
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## Mine Footprint Impacts:

- 24-94 miles of salmon-supporting streams destroyed
- 1,300-5,350 acres of wetlands, ponds, lakes destroyed
- 9-33 miles of salmon-supporting streams with altered streamflow likely to affect ecosystem structure and function

## Other Impacts:

- Tailings dams need maintenance in perpetuity
- Routine operations and accidents would increase impacts on salmon habitat quality, both at the mining site and along the 86-mile transportation corridor.





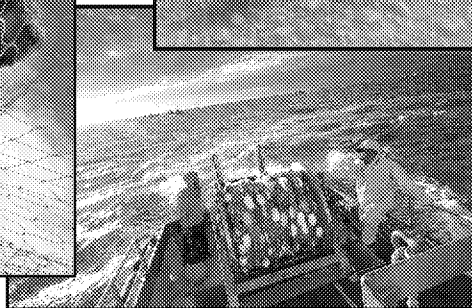
- § 404(a) authorizes the Secretary of the Army to issue **permits**
  - For the discharge of dredged or fill material into waters of the U.S. at specified disposal sites
- § 404(b) directs the Secretary of the Army to apply **environmental criteria** developed by EPA when specifying disposal sites
  - § 404(b)(1) Guidelines [40 CFR Part 230]
- § 404(c) authorizes EPA to prohibit, deny or restrict (withdraw) the placement of dredged or fill material at defined sites in waters of the U.S.

# Limits of Section 404(c)



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- **Whenever** it determines, after notice and opportunity for public hearing, that the discharge of such materials into such area will have an **unacceptable adverse effect(s)** on:
  - Municipal water supplies; or
  - Shellfish beds and **fishery areas**; or
  - Wildlife; or
  - Recreation areas.



# Pebble Deposit 404(c) Process



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## Step 1

- 2/28/14: **Initiation by EPA Region 10 – “15-day letter”**
- Consulted with Corps, NDM/PLP, and State

## Step 2

- 7/18/14: **Proposed Determination** released (PD) by EPA Region 10
- 8/12-15/14: 7 public hearings in Alaska
- Comment period closed 9/19/14

STOP

## Step 3

- EPA Region 10 will review the public comments
- EPA Region 10 will withdraw PD or prepare **Recommended Determination** (RD)

## Step 4

- **Final Determination (FD) by EPA Assistant Administrator for Water**
- Consult again with Corps, NDM/PLP, and State
- Within 60 days of receipt of RD, issue FD affirming, modifying, or rescinding RD

# What Are the Proposed Restrictions?



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Restrict the discharge of dredged or fill material related to mining the Pebble deposit into waters of the U.S. that would, individually or collectively, result in the following:

**1. Loss of Streams.**

- a. The loss of 5 or more linear miles of streams with documented anadromous fish occurrence; **or**
- b. The loss of 19 or more linear miles of streams where anadromous fish are not currently documented, but that are tributaries of streams with documented anadromous fish occurrence; **or**

**2. Loss of Wetlands, Lakes, and Ponds.** The loss of 1,100 or more acres of wetlands, lakes, and ponds contiguous with either streams with documented anadromous fish occurrence or tributaries of those streams; **or**

**3. Streamflow Alterations.** Streamflow alterations greater than 20% of daily flow in 9 or more linear miles of streams with documented anadromous fish occurrence

# Public Input on Proposed Determination

- EPA received:
  - > 670,000 total written public comments,  
> 99% supported the PD
  - > 4,000 total unique comments, > 86%  
supported the PD



Dillingham, August 2014

| EPA Public Hearings – August 12-15, 2014 |                     |                                      |                                   |
|--|---------------------|--------------------------------------|-----------------------------------|
|  | Total<br>Attendance | Testimony<br>supporting<br>PD/404(c) | Testimony<br>against<br>PD/404(c) |
| Anchorage                                | 512                 | 95                                   | 39                                |
| Nondalton                                | 43                  | 18                                   | 1                                 |
| New Stuyahok                             | 60                  | 19                                   | 0                                 |
| Dillingham                               | 134                 | 64                                   | 8                                 |
| Kokanhok                                 | 20                  | 3                                    | 4                                 |
| Iliamna                                  | 67                  | 28                                   | 14                                |
| Iguigig                                  | 20                  | 16                                   | 4                                 |
| <b>TOTAL</b>                             | <b>856</b>          | <b>243</b>                           | <b>70</b>                         |
|  |                     | 77.6%                                | 22.4%                             |
| <b>Bristol Bay Region Only</b>           |                     | <b>82.7%</b>                         | <b>17.3%</b>                      |

# Response to Section 404(c) Proceeding



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- **Office of Inspector General (OIG) Review**
  - 17-month in-depth evaluation found no evidence of bias or a pre-determined outcome
  - Possible misuse of position for retired Region 10 employee noted
- **PLP broad Freedom of Information Act (FOIA) requests**
  - Approximately 18,000 documents produced
- **PLP filed three lawsuits in 2014**
  - Administrative Procedure Act (APA) challenge to initiation of 404(c) process
  - FOIA litigation
  - Federal Advisory Committee Act (FACA) litigation
- **May 2017 settlement agreement**
  - Resolved FOIA and FACA litigation and PLP's outstanding FOIA requests



- Key terms of the May 11, 2017 settlement agreement between PLP and EPA:
  - EPA may use its Bristol Bay Watershed Assessment without limitation
  - EPA agrees to initiate a process to propose to withdraw its 2014 Proposed Determination by July 11, 2017
  - If PLP submits a 404 permit application to the Army Corps by November 11, 2019, EPA agrees not to forward a Recommended Determination (the next step in the 404(c) review process) to EPA HQ until a Final EIS is noticed for the project or May 11, 2021, whichever is earlier
  - PLP drops remaining lawsuits and fee requests against EPA and agrees to file no new FOIA requests during the 2.5- to 4-year hiatus period



# Proposal to Withdraw Proposed Determination



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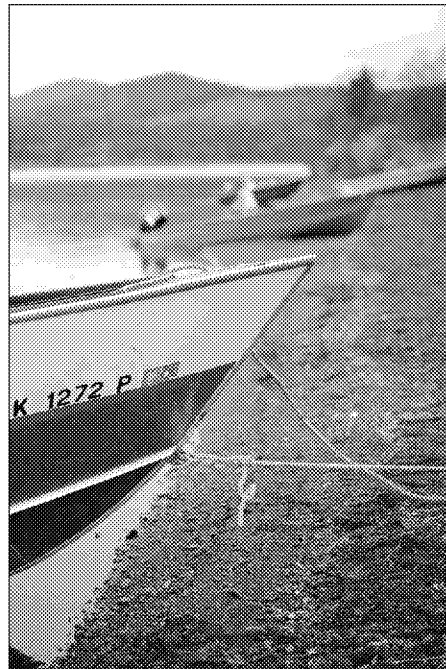
- July 11, 2017 – Withdrawal proposal released with following rationale:
  - Reflecting “the Administrator’s decision to provide PLP with additional time to submit a permit application to the Army Corps and potentially allow the Army Corps permitting process to initiate without having an open and unresolved Section 404(c) review”
  - Removing “any uncertainty, real or perceived, about PLP’s ability to submit a permit application and have that permit application reviewed”
  - Allowing “the factual record regarding any forthcoming permit application to develop”
  - Retaining “discretion to act [under Section 404(c)] prior to any potential Army Corps authorization”

# Response to Settlement and Withdrawal Proposal



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- Broad FOIA requests from news outlets and environmental groups
  - Region 10 is the lead with support from HQ
- Significant email campaigns to the Administrator and Acting Regional Administrator against withdrawal
- Substantial and sustained media attention



# Proposal to Withdraw - Engagement



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- Public Comment Period
  - >1 million comments
- Consultation and Coordination
  - EPA met with 18 Tribes, 3 ANCSA Corporations, and 1 Tribal Association
- Two public hearings in the watershed
  - ~200 participants

**Personal Matters / Ex. 6**

Iliamna Hearing, Oct. 2017

**Deliberative Process / Ex. 5**

**Personal Matters / Ex. 6**

Dillingham Hearing, Oct. 2017



## Deliberative Process / Ex. 5

# Potential Pebble Mine – Next Steps



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- Impacts from past exploration and site activities?
- In October of 2017, PLP publicly described a smaller mine concept
- Corps has indicated that PLP plans to file a permit application on December 22
  - Interagency pre-application meeting scheduled for December 21
  - EPA would be involved in 404 and NEPA review



Pebble deposit area.

# Current Bristol Bay Team



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## R10 Office of Environmental Review and Assessment

- David Allnutt, Director\*
- Michael Szerlog\*
- Derek Threet

## HQ Office of Water

- Lee Forsgren, Deputy Assistant Administrator\*
- Russell Kaiser\*
- Palmer Hough
- Brittany Bennett

## R10 Public Affairs

- Marianne Holsman\*
- Suzanne Skadowski

## Tribal

- Stacy Murphy\* (R10)
- Karen Gude (HQ)

## R10 Mining Advisor

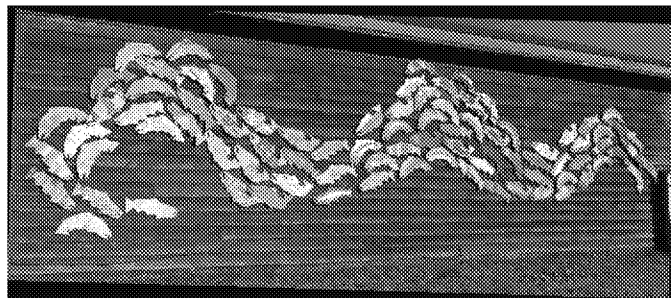
- Patty McGrath

## Legal

- Allyn Stern, Regional Counsel\*
- Cara Steiner-Riley\* (R10)
- Ashley Palomaki (R10)
- Carrie Wehling\* (HQ)
- Heidi Nalven (HQ)

## R10 Community Involvement Coordinator

- Andrea Lindsay



## Alaska Operations Office

- Tami Fordham\*

## FOIA Expert Assistance Team

- Denise Walker

\* denotes management

# Questions



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Upper Talarik Creek, one of three streams flowing from the Pebble deposit site

21

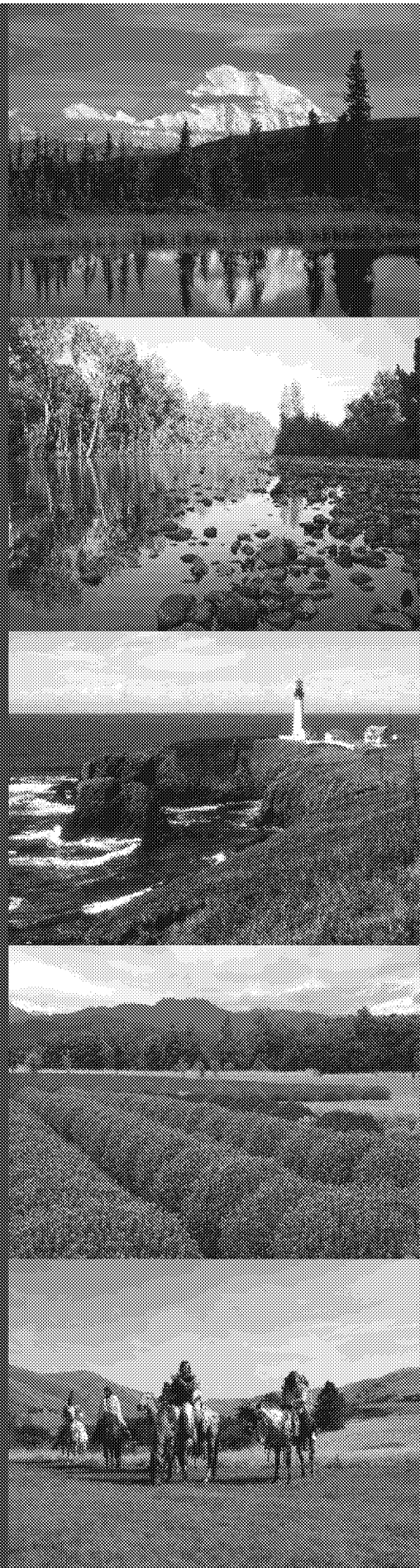


# Briefing Book for Incoming Regional Administrator for EPA Region 10

Prepared by the Office of the  
Regional Administrator

December 2017

*For internal use only, not for distribution*





**Non-Responsive: Unrelated to Bristol Bay/Pebble Mine**

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# Non-Responsive: Unrelated to Bristol Bay/Pebble Mine

## Key Challenges and Opportunities

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### Bristol Bay/Pebble Mine

Mine would sit at headwaters of world's largest commercial salmon fishery; significant opposition to mine from native, commercial fishing, and environmental interests; EPA's CWA 404 program would play a significant role in permitting process.

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**Tribal**

**Pebble Mine:** The Pebble Limited Partnership proposes to extract the extremely large, low grade Pebble copper deposit in Alaska's Bristol Bay watershed, but has not yet submitted a permit application. In July 2014, based in part on EPA's January 2014 "Bristol Bay Watershed Assessment," EPA issued a Proposed Determination under CWA §404(c) to restrict the use of certain waters in the Bristol Bay watershed as a disposal site. Under a May 2017 settlement agreement, EPA agreed to propose to withdraw the proposed determination. On July 11, EPA initiated that process, and received over 1 million comments during a 90-day public comment period and concurrent tribal consultation period.

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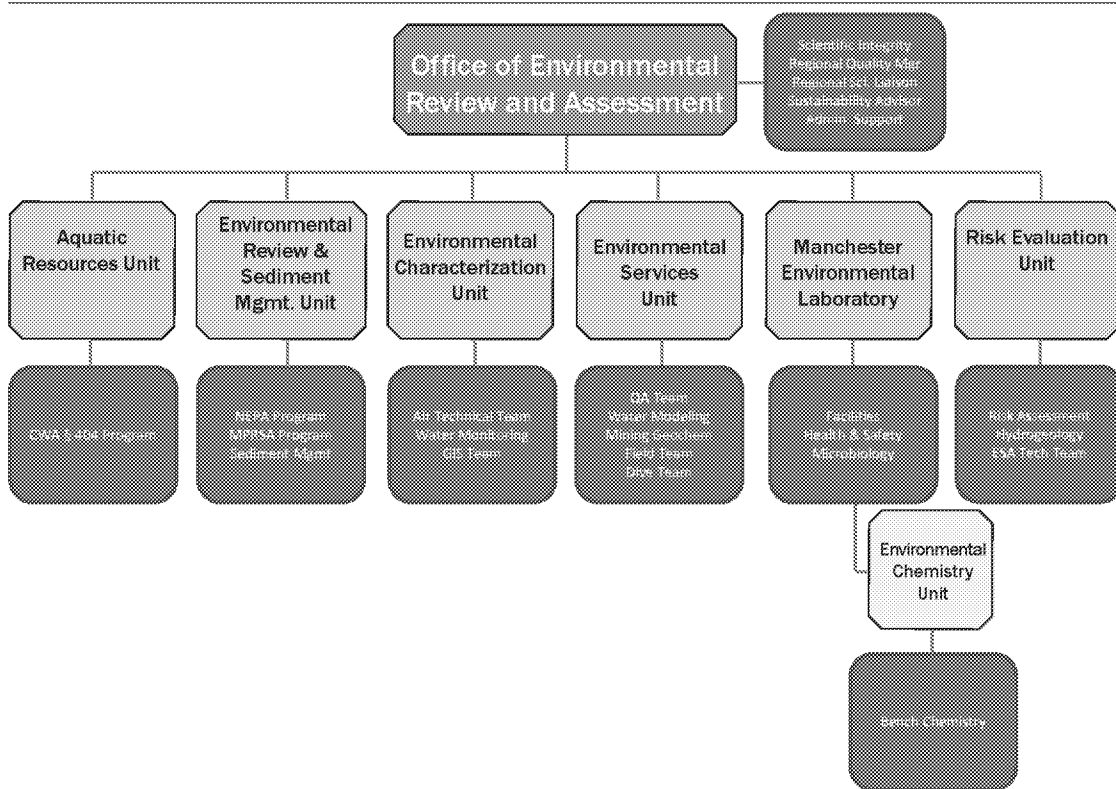
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***Office of Environmental Review  
and Assessment  
Region 10***

Overview for Regional Administrator Hladick  
December 6, 2017

**OFFICE OF ENVIRONMENTAL REVIEW AND ASSESSMENT  
ORGANIZATIONAL STRUCTURE**



**OFFICE OF ENVIRONMENTAL REVIEW AND ASSESSMENT  
MAJOR AREAS OF RESPONSIBILITY**

---

Clean Water Act § 404 Program (discharges of “dredged or fill material” to “waters of the U.S.”)

- CWA Jurisdiction/WOTUS
- Corps permit review and oversight
- Wetland Program Development Grants
- Mitigation banking
- Water quality certification
- Enforcement technical support

Marine Protection, Research and Sanctuaries Act (Ocean Dumping Act) Program

- Ocean disposal site designation and surveys
- MPRSA ocean dumping permits
- Ocean Policy (e.g., MRAC, West Coast RPB)

National Environmental Policy Act/Clean Air Act § 309 Program

- NEPA compliance
- NEPA review
- Cooperating Agency/FAST-41

**OFFICE OF ENVIRONMENTAL REVIEW AND ASSESSMENT  
MAJOR AREAS OF RESPONSIBILITY**

---

Scientific and Technical Support Functions

- Quality assurance (QA)
- Air, surface water, and wetland monitoring
- Air and water modelling
- Hydrogeology
- Ecological and human health risk assessment
- Geographic information systems (GIS)
- Sediment management review
- Endangered Species Act (ESA) technical support
- Field support
- Scientific Dive Team

Manchester Environmental Laboratory

- Analytical support to programs
- Lab certification, auditing
- Facility sharing agreement with Dept. of Ecology
- ESAT contract

Message

---

**From:** Allnutt, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6E28F5BF9CBF4B8B9EDA7751C2F10750-ALLNUTT, DAVID]  
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**To:** Schuster, Cindy [Schuster.Cindy@epa.gov]  
**CC:** Peterson, Erik [Peterson.Erik@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]  
**Subject:** FW: Check-in on Smith/Bishop/Gosar letter re: Bristol Bay  
**Attachments:** 18-000-5435.pdf; supporting doc. AL-18-000-5435, L. Smith - 4-4-18.pdf; ATT84638; ATT99856; ATT70926; ATT46728

Cindy – this version seems to be structured a bit differently than the one I reviewed last month, with a few elaborating sentences, but it seems OK to me.



**R. David Allnutt**, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581



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**From:** Schuster, Cindy  
**Sent:** Tuesday, April 24, 2018 12:56 PM  
**To:** Allnutt, David <Allnutt.David@epa.gov>  
**Cc:** Schuster, Cindy <Schuster.Cindy@epa.gov>  
**Subject:** FW: Check-in on Smith/Bishop/Gosar letter re: Bristol Bay

David,

I believe you reviewed a version of this CMS response on March 28. Do you and/or any others here need to look at this version approved by Lee Forsgren? The response is overdue, so OCIR is looking for a reply soon.  
--Cindy, x. 1815

---

**From:** Skane, Elizabeth  
**Sent:** Tuesday, April 24, 2018 12:20 PM  
**To:** Schuster, Cindy <Schuster.Cindy@epa.gov>  
**Subject:** Check-in on Smith/Bishop/Gosar letter re: Bristol Bay

Hi Cindy, I'm running the traps on a Bristol Bay letter (AL-18-000-5435)—you might have worked with Denis Borum on this one but he is out of the office this week so I'm doing my best to get it wrapped up. In any event, it looks like we have an approved response in CMS but it's not entirely clear if you all in the Region have been involved and reviewed this letter? If so, that's great and I will proceed to run this through our front office before closing it out. At you

earliest convenience please let me know if you all are okay with this response. Incoming and draft response (with Lee Forsgren's approval) attached.

Thanks!

Elizabeth



18-000-5435.pdf



supporting doc.  
AL-18-000-5435,...

**Elizabeth Skane** ♦ 202.564.5696

US Environmental Protection Agency  
Office of Congressional Affairs  
WJC North 34435

Message

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**From:** Allnutt, David [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6E28F5BF9CBF4B8B9EDA7751C2F10750-ALLNUTT, DAVID]  
**Sent:** 3/31/2018 7:41:20 PM  
**To:** McGrath, Patricia [mcgrath.patricia@epa.gov]  
**CC:** Wernitz, James [Wernitz.James@epa.gov]  
**Subject:** Re: hot issues

Patty- thanks

Jim - I'll stick the pebble item in the weekly

Sent from my iPhone

On Mar 31, 2018, at 1:10 PM, McGrath, Patricia <[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)> wrote:

Hi Jim and David -

Below are blurbs for the weekly hot issues.

## **Non-Responsive – Material Unrelated to Bristol Bay/Pebble Mine**

Pebble Mine Project: On March 29 the Army Corps of Engineers published a Notice of Intent in the Federal Register initiating the formal scoping process for the Pebble EIS. The 30-day scoping period began on April 1 and will include nine public meetings. Numerous requests have already been submitted to the Corps requesting an extension to the scoping period. EPA's Pebble NEPA team will be developing scoping comments.

**Patty McGrath | Mining Advisor**

U.S. Environmental Protection Agency, Region 10  
1200 Sixth Avenue, Seattle, WA 98101

M/S: RAD-202

Office: (206) 553-6113

Cell: (206) 743-7068

[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)



Message

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**Sent:** 11/13/2018 11:58:54 PM  
**To:** Hladick, Christopher [hladick.christopher@epa.gov]  
**Subject:** background materials  
**Attachments:** Pebble-Bristol Bay 404(c)\_Options for additional public comment\_3-2-18\_final.docx; BB Presentation\_1282018\_pm\_ACP.PPTX; ATT73739; ATT37248; ATT00111; ATT18253

Chris – I found the two attached documents useful in beginning to wrap my head around the questions surrounding next steps for our Pebble 404(c) determination.

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**Sent:** 11/13/2018 11:31:58 PM  
**To:** Hladick, Christopher [hladick.christopher@epa.gov]  
**Subject:** background materials  
**Attachments:** Pebble-Bristol Bay 404(c)\_Options for additional public comment\_3-2-18\_final.docx; BB Presentation\_1282018\_pm\_ACP.PPTX; ATT73739; ATT37248; ATT00111; ATT18253

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Message

**Sent:** 11/13/2018 11:41:43 PM  
**To:** Hladick, Christopher [hladick.christopher@epa.gov]  
**Subject:** background materials  
**Attachments:** Pebble-Bristol Bay 404(c)\_Options for additional public comment\_3-2-18\_final.docx; BB Presentation\_1282018\_pm\_ACP.PPTX; ATT03077; ATT05238; ATT90216; ATT76528

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The options I think we'd present would be:

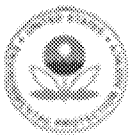
## Deliberative Process / Ex. 5



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**Sent:** 11/13/2018 11:51:26 PM  
**To:** Hladick, Christopher [hladick.christopher@epa.gov]  
**Subject:** background materials  
**Attachments:** Pebble-Bristol Bay 404(c)\_Options for additional public comment\_3-2-18\_final.docx; BB Presentation\_1282018\_pm\_ACP.PPTX; ATT14583; ATT94083; ATT14154; ATT12801

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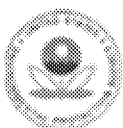
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Message

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**Sent:** 11/13/2018 11:40:47 PM  
**To:** Hladick, Christopher [hладick.christopher@epa.gov]  
**Subject:** background materials  
**Attachments:** Pebble-Bristol Bay 404(c)\_Options for additional public comment\_3-2-18\_final.docx; BB Presentation\_1282018\_pm\_ACP.PPTX; ATT73739; ATT37248; ATT00111; ATT18253

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Message

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**Sent:** 11/14/2018 12:06:52 AM  
**To:** Hladick, Christopher [hladick.christopher@epa.gov]  
**Subject:** background materials  
**Attachments:** Pebble-Bristol Bay 404(c)\_Options for additional public comment\_3-2-18\_final.docx; BB Presentation\_1282018\_pm\_ACP.PPTX; ATT73739; ATT37248; ATT00111; ATT18253

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Message

**Sent:** 11/13/2018 11:30:02 PM  
**To:** Hladick, Christopher [hladick.christopher@epa.gov]  
**Subject:** background materials  
**Attachments:** Pebble-Bristol Bay 404(c)\_Options for additional public comment\_3-2-18\_final.docx; BB Presentation\_1282018\_pm\_ACP.PPTX; ATT77449; ATT01929; ATT37929; ATT33843

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Message

**Sent:** 11/13/2018 11:39:39 PM  
**To:** Hladick, Christopher [hладick.christopher@epa.gov]  
**Subject:** background materials  
**Attachments:** Pebble-Bristol Bay 404(c)\_Options for additional public comment\_3-2-18\_final.docx; BB Presentation\_1282018\_pm\_ACP.PPTX; ATT85003; ATT58639; ATT48634; ATT53155

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Message

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**Sent:** 11/13/2018 11:50:28 PM  
**To:** Hladick, Christopher [hladick.christopher@epa.gov]  
**Subject:** background materials  
**Attachments:** Pebble-Bristol Bay 404(c)\_Options for additional public comment\_3-2-18\_final.docx; BB Presentation\_1282018\_pm\_ACP.PPTX; ATT73739; ATT37248; ATT00111; ATT18253

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**Sent:** 11/13/2018 11:29:02 PM  
**To:** Hladick, Christopher [hladick.christopher@epa.gov]  
**Subject:** background materials  
**Attachments:** Pebble-Bristol Bay 404(c)\_Options for additional public comment\_3-2-18\_final.docx; BB Presentation\_1282018\_pm\_ACP.PPTX; ATT73739; ATT37248; ATT00111; ATT18253

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Message

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**Sent:** 11/13/2018 11:38:32 PM  
**To:** Hladick, Christopher [hладick.christopher@epa.gov]  
**Subject:** background materials  
**Attachments:** Pebble-Bristol Bay 404(c)\_Options for additional public comment\_3-2-18\_final.docx; BB Presentation\_1282018\_pm\_ACP.PPTX; ATT73739; ATT37248; ATT00111; ATT18253

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Message

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**Sent:** 11/14/2018 12:05:54 AM  
**To:** Hladick, Christopher [hладick.christopher@epa.gov]  
**Subject:** background materials  
**Attachments:** Pebble-Bristol Bay 404(c)\_Options for additional public comment\_3-2-18\_final.docx; BB Presentation\_1282018\_pm\_ACP.PPTX; ATT87296; ATT30666; ATT90602; ATT69447

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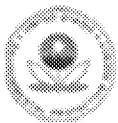
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Message

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**Sent:** 11/13/2018 11:22:27 PM  
**To:** Hladick, Christopher [hladick.christopher@epa.gov]  
**Subject:** background materials  
**Attachments:** Pebble-Bristol Bay 404(c)\_Options for additional public comment\_3-2-18\_final.docx; BB Presentation\_1282018\_pm\_ACP.PPTX; ATT04573; ATT98939; ATT98378; ATT46474

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Message

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**Sent:** 11/13/2018 11:47:05 PM  
**To:** Hladick, Christopher [hladick.christopher@epa.gov]  
**Subject:** background materials  
**Attachments:** Pebble-Bristol Bay 404(c)\_Options for additional public comment\_3-2-18\_final.docx; BB Presentation\_1282018\_pm\_ACP.PPTX; ATT11537; ATT88419; ATT28226; ATT25893

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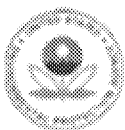
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**To:** Hladick, Christopher [hladick.christopher@epa.gov]  
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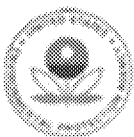
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**To:** Hladick, Christopher [hladick.christopher@epa.gov]  
**Subject:** background materials  
**Attachments:** Pebble-Bristol Bay 404(c)\_Options for additional public comment\_3-2-18\_final.docx; BB Presentation\_1282018\_pm\_ACP.PPTX; ATT56423; ATT99482; ATT13818; ATT51311

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**To:** Hladick, Christopher [hladick.christopher@epa.gov]  
**Subject:** background materials  
**Attachments:** Pebble-Bristol Bay 404(c)\_Options for additional public comment\_3-2-18\_final.docx; BB Presentation\_1282018\_pm\_ACP.PPTX; ATT73739; ATT37248; ATT00111; ATT18253

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**Deliberative Process / Ex. 5**

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The options I think we'd present would be:

**Deliberative Process / Ex. 5**



Pebble-Bristol Bay  
404(c)\_Options f...



BB  
Presentation\_12...



**R. David Alnutt**, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581

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Message

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**Sent:** 11/14/2018 12:04:54 AM  
**To:** Hladick, Christopher [hladick.christopher@epa.gov]  
**Subject:** background materials  
**Attachments:** Pebble-Bristol Bay 404(c)\_Options for additional public comment\_3-2-18\_final.docx; BB Presentation\_1282018\_pm\_ACP.PPTX; ATT73739; ATT37248; ATT00111; ATT18253

Chris – I found the two attached documents useful in beginning to wrap my head around the questions surrounding next steps for our Pebble 404(c) determination.

The Word document is the paper we used to brief you, Lee, and David Fotouhi last March regarding how to implement Administrator Pruitt's commitment to hold an additional public comment period on the proposal to withdraw the PD. It

## Deliberative Process / Ex. 5

The PowerPoint document is the most recent (Feb. 2018) version of the background materials used for leadership briefings. (You and Lee saw earlier versions of this presentation in 2017).

**Deliberative Process / Ex. 5**

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## Deliberative Process / Ex. 5



Pebble-Bristol Bay  
404(c)\_Options f...



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Presentation\_12...



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---

**Sent:** 11/13/2018 11:46:06 PM  
**To:** Hladick, Christopher [hладick.christopher@epa.gov]  
**Subject:** background materials  
**Attachments:** Pebble-Bristol Bay 404(c)\_Options for additional public comment\_3-2-18\_final.docx; BB Presentation\_1282018\_pm\_ACP.PPTX; ATT73739; ATT37248; ATT00111; ATT18253

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---

**Sent:** 11/13/2018 11:32:56 PM  
**To:** Hladick, Christopher [hladick.christopher@epa.gov]  
**Subject:** background materials  
**Attachments:** Pebble-Bristol Bay 404(c)\_Options for additional public comment\_3-2-18\_final.docx; BB Presentation\_1282018\_pm\_ACP.PPTX; ATT05047; ATT78214; ATT06167; ATT26464

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**Deliberative Process / Ex. 5**

**Deliberative Process / Ex. 5**

The options I think we'd present would be:

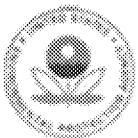
## Deliberative Process / Ex. 5



Pebble-Bristol Bay  
404(c)\_Options f...



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**Sent:** 11/13/2018 11:44:57 PM  
**To:** Hladick, Christopher [hladick.christopher@epa.gov]  
**Subject:** background materials  
**Attachments:** Pebble-Bristol Bay 404(c)\_Options for additional public comment\_3-2-18\_final.docx; BB Presentation\_1282018\_pm\_ACP.PPTX; ATT95142; ATT52498; ATT20480; ATT37785

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Deliberative Process / Ex. 5

### Deliberative Process / Ex. 5

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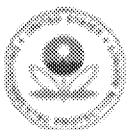
## Deliberative Process / Ex. 5



Pebble-Bristol Bay  
404(c)\_Options f...



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Message

---

**Sent:** 11/14/2018 12:01:55 AM  
**To:** Hladick, Christopher [hladick.christopher@epa.gov]  
**Subject:** background materials  
**Attachments:** Pebble-Bristol Bay 404(c)\_Options for additional public comment\_3-2-18\_final.docx; BB Presentation\_1282018\_pm\_ACP.PPTX; ATT59883; ATT64953; ATT22305; ATT54158

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**Deliberative Process / Ex. 5**

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## Deliberative Process / Ex. 5



Pebble-Bristol Bay  
404(c)\_Options f...

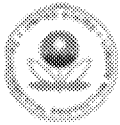


BB  
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U.S. EPA, Region 10

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**Sent:** 11/13/2018 11:43:48 PM  
**To:** Hladick, Christopher [hladick.christopher@epa.gov]  
**Subject:** background materials  
**Attachments:** Pebble-Bristol Bay 404(c)\_Options for additional public comment\_3-2-18\_final.docx; BB Presentation\_1282018\_pm\_ACP.PPTX; ATT73739; ATT37248; ATT00111; ATT18253

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**Sent:** 11/14/2018 12:01:02 AM  
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404(c)\_Options f...



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Presentation\_12...



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1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
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Message

---

**Sent:** 11/13/2018 11:59:46 PM  
**To:** Hladick, Christopher [hladick.christopher@epa.gov]  
**Subject:** background materials  
**Attachments:** Pebble-Bristol Bay 404(c)\_Options for additional public comment\_3-2-18\_final.docx; BB Presentation\_1282018\_pm\_ACP.PPTX; ATT37035; ATT56485; ATT31283; ATT02538

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Deliberative Process / Ex. 5

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U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155

---



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## Appointment

---

**From:** McGrath, Patricia [mcgrath.patricia@epa.gov]  
**Sent:** 7/9/2018 10:57:54 PM  
**To:** McGrath, Patricia [mcgrath.patricia@epa.gov]; Werntz, James [Werntz.James@epa.gov]; Detwiler, Susan K. [detwiler.susan@epa.gov]; Stern, Allyn [Stern.Alyn@epa.gov]; Bilbrey, Sheryl [Bilbrey.Sheryl@epa.gov]; Opalski, Dan [Opalski.Dan@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]  
**Subject:** ET Mining Subgroup meeting  
**Attachments:** ET\_miningsubgroup\_summary\_201808.docx  
**Location:** R10IOO-6 **Conference Line/Code / Ex. 6** IOO-Meet-Me-Ln/R10-IOO-Eqpt; R10Sea-Room-11Camas-ORC-VTC/R10-Rooms-Restricted  
**Start:** 8/7/2018 4:00:00 PM  
**End:** 8/7/2018 5:00:00 PM  
**Show Time As:** Tentative

### Conference Line/Code / Ex. 6

Meeting of ET Mining Subgroup  
Agenda to be sent out before the meeting

Dear ET Mining Subgroup-

Attached is the mining update for August. Areas highlighted in the update are those that I propose discussing during our meeting tomorrow, which include:

Nonresponsive: Unrelated to Bristol Bay/Pebble Mine."

- Project-specific updates – Pebble, Stibnite, Kensington, Triumph

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine."**

Patty

**ET Mining Subgroup – Mining Sector Update  
August 6, 2018**

ET Mining Subgroup Meeting – last meeting 5/10/2018; next meeting 8/7/2018

Region 10 Mining Team (Attachment 1 contains current roster)

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine.”**

NEPA and Permitting Updates

- Current cross-programmatic NEPA/permitting mining work is summarized in the table below

| Mine Project   | Programs                                     | Update   |
|--|--|--|
| <b>Nonresponsive: Unrelated to Bristol Bay/Pebble Mine.”</b> |  |  |
| Pebble (AK)  | NEPA (CA)<br>404<br>NPDES (o/s)<br>Air (o/s) | <ul style="list-style-type: none"><li>- Proposal to withdraw 404(c) determinations was suspended</li><li>- EPA submitted scoping comments to the Corps on 6/29/2018</li><li>- We are reviewing early versions of select sections of the draft EIS</li><li>- Draft EIS scheduled for January 2019</li><li>- Summer field visits</li></ul> |

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine.”**

| Mine Project | Programs | Update |
|--------------|----------|--------|
|--------------|----------|--------|

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine.”**

- EPA mining NPDES permits

| Permit | Permit<br>Expiration<br>date | Issues/Status |
|--------|------------------------------|---------------|
|--------|------------------------------|---------------|

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine.”**

- Future work - The following projects are likely to be added to our mining work in 2018/2019

| Mine Project | Activity | Programs | Timing |
|--------------|----------|----------|--------|
|--------------|----------|----------|--------|

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine.”**

Compliance & Enforcement

Nonresponsive: Unrelated to Bristol Bay/Pebble Mine."

Superfund

Nonresponsive: Unrelated to Bristol Bay/Pebble Mine."

Transboundary Mining

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine."**

| Project | Location in relation to<br>US waters | Status/Update |
|---------|--------------------------------------|---------------|
|---------|--------------------------------------|---------------|

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine."**

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine."**



**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine.”**

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine.”**

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine.”**

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine.”**

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine.”**

**ATTACHMENT 1**  
**EPA Regional Mining Team Roster**

| Office | Program         | Core Mine Team Member                      | Regional Mining Workgroup Member  |
|--------|-----------------|--|---|
| RA     | Tribal          | Michelle Davis                             | Catherine Villa<br>Need ID member to replace Jim Zokan  |
|        | Public Affairs  | Julie Congdon                              | Mark MacIntyre  |
| OERA   | NEPA            | Molly Vaughn (Alaska)<br>Lynn Hood (Idaho) | Theogene Mbabaliye  |
|        | 404             | Mary Ann Thiesing                          | Charissa Bujak<br>Anne Whitley  |
|        | Scientists      | Chris Eckley<br>Tim Maley                  | Joe Goulet  |
| OWW    | NPDES permits   | Cindi Godsey                               | Misha Vakoc   |
|        | NEPA compliance | Jamey Stoddard                             |   |
| OCE    |                 | Tara Martich                               | Derek Schruhl (UIC)   |
| ECL    | Remedial        | Dave Tomten<br>Matt Wilkening<br>Ed Moreen | Beth Sheldrake<br>Cami Grandinetti<br>Chris Cora<br>Eva DeMaria<br>Joe Wallace<br>Kim Prestbo |
|        | Removal         | Eric Vanderboom                            |   |
|        | Site assessment |  | Monica Tonel  |
| ORC    | Superfund       | Elizabeth McKenna                          | Jennifer MacDonald  |
|        | Multi-media     | Ashely Palomaki<br>Kim Owens               | Cara Steiner-Riley  |
| OAWT   | RCRA            | Lisa Olson                                 | Dave Bartus   |
|        | Air             | Karl Pepple                                | Jay McAlpine  |

**ATTACHMENT 2**  
**Currently Active Remedial and Removal Mining Sites**

| State | Name | NPL listed<br>& year | Status |
|-------|------|----------------------|--------|
|-------|------|----------------------|--------|

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine.”**

[ PAGE \\* MERGEFORMAT ]

| State | Name | NPL listed<br>& year | Status |
|-------|------|----------------------|--------|
|-------|------|----------------------|--------|

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine.”**

| State | Name | NPL listed<br>& year | Status |
|-------|------|----------------------|--------|
|-------|------|----------------------|--------|

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine.”**

## Appointment

---

**To:** Peterson, Erik [Peterson.Erik@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]

**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]

**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Start:** 8/1/2018 5:00:00 PM

**End:** 8/1/2018 5:30:00 PM

**Show Time As:** Busy

**Recurrence:** (none)

Suggesting change to this meeting given scheduling constraints.

Erik Peterson will email the agenda prior to the meeting.

### **→ Join by Phone**

**Conference Line/Code / Ex. 6**

### **→ Meeting Organizer**

Erik Peterson, USEPA (206) 553-6382 office

## Appointment

---

**To:** Allnutt, David [Allnutt.David@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]

**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]; Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]

**Subject:** Canceled: Bristol Bay Check-in  
**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Start:** 9/25/2018 4:00:00 PM  
**End:** 9/25/2018 5:00:00 PM  
**Show Time As:** Free

**Recurrence:** (none)

### → Join by Phone

**Conference Line/Code / Ex. 6**

### → Meeting Organizer

Erik Peterson, USEPA (206) 553-6382 office



## Appointment

---

**To:** Fordham, Tami [Fordham.Tami@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]  
**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]; Walker, Denise [Walker.Denise@epa.gov]

**Location:** R10Sea-Room-14WallaWalla/R10-Rooms-Service-Center

**Start:** 10/23/2018 4:00:00 PM

**End:** 10/23/2018 5:00:00 PM

**Recurrence:** (none)

### Agenda

NEPA Review

FOIA – E&E News

→ Join by Phone

**Conference Line/Code / Ex. 6**

→ Meeting Organizer

Erik Peterson, USEPA (206) 553-6382 office

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**To:** Peterson, Erik [Peterson.Erik@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]

**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]

**Location:** R10Sea-Room-14WallaWalla/R10-Rooms-Service-Center

**Start:** 10/9/2018 4:00:00 PM

**End:** 10/9/2018 5:00:00 PM

**Recurrence:** (none)

## Agenda

### 404(c) Team

#### Congressional responses (Palmer)

- Western Caucus (Gosar et al) – newly OW-approved, not issued
- DeFazio and Carper – just revised, based on newly OW-approved, not issued Western Caucus response
- Lamar Smith – just drafted, based on newly OW-approved, not issued Western Caucus response

#### FOIA (Ashley)

- E&E News – new request for unredacted copies
- McKeever FOIA Lawsuit – next steps
- NRDC and CNN – working with the AOs office
- Trustees for Alaska – options for Justin Schwab review
- Trustees for Alaska 2 – new FOIA
- Back-up (Erik)

#### External Correspondence (Erik)

- Recent activity and approach

### Permit Oversight/ NEPA Review Team

#### Timing a Brittany Bolen briefing?

#### Site Visits

- July 9 – 11: CWA 404 field verification was completed by Mark Douglas
- July 31: Site visit with some of our NEPA team (Patty, Molly, Tim, Chris) to view the mine site, proposed Lake Iliamna port sites, and portions of the proposed roads

#### NEPA/EIS document reviews - completed

- Scoping Document: In August we submitted comments on the draft scoping document that describes the significant issues raised in scoping. The final scoping document is available on the Corp's Pebble EIS website.
- Preliminary EIS Sections: In July and August, we reviewed and commented on specific portions of chapter 3 (affected environment) and chapter 4 (environmental consequences) that pertain to our areas of special

expertise as identified by the Corps which includes: aesthetics, surface water hydrology, groundwater hydrology, water and sediment quality, wetlands, vegetation)

- The documents have many placeholders since there have been changes to the proposed action, alternatives have yet to be finalized, and there are numerous substantial requests for additional information where the Corps is awaiting response from PLP.
- Alternatives: On October 3, we submitted comments on draft Appendix B (Alternatives Development Process). Previously we participated in a cooperating agency meeting and provided verbal input on the alternatives development process and some of the potential alternatives.

NEPA/EIS document reviews – upcoming

- The Corps has indicated that they will be sending us draft DEIS sections on 11/9 with comments due by 11/21. We have requested more time for review (30 days review period).

Schedule

- The Corps Pebble EIS website identifies estimated dates for a draft EIS in January 2019 and a final EIS in late 2019.

→ Join by Phone

**Conference Line/Code / Ex. 6**

→ **Meeting Organizer**

Erik Peterson, USEPA (206) 553-6382 office

## Appointment

---

**To:** Stern, Allyn [Stern.Allyn@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]

**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]

**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Start:** 11/6/2018 5:00:00 PM

**End:** 11/6/2018 6:00:00 PM

**Recurrence:** (none)

Erik and Patty will be calling in to this meeting.

### Agenda

**Permit Oversight/ NEPA Review Team**

NEPA Review

**404(c)**

FOIA – HQ role in FOIA responsibilities

**→ Join by Phone**

**Conference Line/Code / Ex. 6**

**→ Meeting Organizer**

Erik Peterson, USEPA (206) 553-6382 office

## Appointment

---

**To:** Fordham, Tami [Fordham.Tami@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Stern, Allyn [Stern.Alyn@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]  
**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]

**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Start:** 11/20/2018 5:00:00 PM

**End:** 11/20/2018 6:00:00 PM

**Recurrence:** (none)

### Agenda

#### **Permit Oversight/ NEPA Review Team**

Preliminary EIS review

#### **404(c) Team**

NEPA/404c coordination

Competitive Enterprise Institute Information Quality Act Request for Correction or Withdrawal Regarding Bristol Bay Watershed Assessment

#### FOIA

- E&E News (011614)
- McKeever FOIA Lawsuit
- Trustees for Alaska 2 (0135)
- HQ FOIA Role

#### Congressional correspondence

- Western Caucus (Gosar et al) – Forsgren signed final sent 9/16/18
- Lamar Smith – nearly identical Forsgren signed final sent 10/18/18
- DeFazio and Carper – in process

June 2018 memo on 404c regulation revisions

#### External meeting

- 11/14/18 Forsgren, PLP and other BB stakeholders

### **→ Join by Phone**

**Conference Line/Code / Ex. 6**

## → Meeting Organizer

Erik Peterson, USEPA (206) 553-6382 office

## Appointment

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**To:** Fordham, Tami [Fordham.Tami@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]

**CC:** Thiesing, Mary [Thiesing.Mary@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]; Detwiler, Susan K. [detwiler.susan@epa.gov]; Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]; Thiesing, Mary [Thiesing.Mary@epa.gov]

**Subject:** Canceled: Bristol Bay Check-in

**Start:** 1/1/2019 5:00:00 PM

**End:** 1/1/2019 6:00:00 PM

**Show Time As:** Free

**Importance:** High

**Recurrence:** (none)

Erik Peterson will email the agenda prior to the meeting.

### → Join by Phone

**Conference Line/Code / Ex. 6**

### → Meeting Organizer

Erik Peterson, USEPA (206) 553-6382 office

## Appointment

---

**From:** R10-OERA Calendar [R10-OERA\_Calendar@epa.gov]  
**Sent:** 5/16/2018 5:11:26 PM  
**To:** R10-OERA Calendar [R10-OERA\_Calendar@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Szerlog, Michael [Szerlog.Michael@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; LaCroix, Matthew [LaCroix.Matthew@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Combes, Marcia [Combes.Marcia@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]  
**CC:** Douglas, Mark [douglas.mark@epa.gov]; Detwiler, Susan K. [detwiler.susan@epa.gov]

**Subject:** Bristol Bay Check-in

**Attachments:** Untitled Attachment; Canceled: Bristol Bay Check-in; Untitled Attachment

**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center;

**Conference Line/Code / Ex. 6**

**Start:** 6/20/2018 4:00:00 PM

**End:** 6/20/2018 5:00:00 PM

**Show Time As:** Tentative

**Recurrence:** Weekly  
every 2 week(s) on Wednesday from 9:00 AM to 10:00 AM



## Appointment

---

**To:** Stern, Allyn [Stern.Allyn@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; R10-OERA Calendar [R10-OERA\_Calendar@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Szerlog, Michael [Szerlog.Michael@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; LaCroix, Matthew [LaCroix.Matthew@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Combes, Marcia [Combes.Marcia@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]

**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]

**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center;

**Conference Line/Code / Ex. 6**

**Start:** 7/3/2018 4:00:00 PM

**End:** 7/3/2018 5:00:00 PM

**Show Time As:** Tentative

**Recurrence:** (none)

**To:** Allnutt, David [Allnutt.David@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Szerlog, Michael [Szerlog.Michael@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; LaCroix, Matthew [LaCroix.Matthew@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]; R10-OERA Calendar [R10-OERA\_Calendar@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Szerlog, Michael [Szerlog.Michael@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; LaCroix, Matthew [LaCroix.Matthew@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Combes, Marcia [Combes.Marcia@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]

**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center;

**Conference Line/Code / Ex. 6**

**Start:** 7/3/2018 4:00:00 PM

**End:** 7/3/2018 5:00:00 PM

**Show Time As:** Tentative

**Recurrence:** (none)

COE not intending to send EPA a complete preliminary draft EIS. State will review but not likely help write the document. Cooperating Agency Plan asked for agencies to help develop sections based on expertise rather than just reviewing. Joint State agency 23 pg. comment letter on fish, tailings (look at dry tailings option), water quality, and climate change (similar to ours but we also mentioned the modeling and human health impacts). State cooperating agency comment letter expressed concern about the schedule. Governor wants the company to demonstrate financial viability of the project before the process proceeds. COE will need more information on feasibility but will continue the process unless the permit is withdrawn. We will use the usual process and coordinate with HQ at the staff level on the DEIS when it's out in Jan Feb 2019 (Pebble saying spring or summer). Need to determine how best to give HQ senior leadership the context moving to the next step in the process. As of yesterday, EPA comments not posted on the COE website (letter speaks for itself). ACHP letter asked for reasonable effort with consultations under Historic Preservation Act. We are currently submitting comments to the COE on hydrology, water quality, wetlands (baseline rather than impact section). Molly and Patty to be cc'd on comments sent to COE staff. Big meeting of COE and cooperating agencies moved from July to Aug.

**Deliberative Process / Ex. 5**

#### **Deliberative Process / Ex. 5**

Site visits next week with Mark Douglas (field verification with the COE). July 31 site visit by Patty, Chris E, Mark J, Molly; COE did not respond on request to coordinate with them and other agencies, so coordinating directly with Pebble on the site visit.

**Deliberative Process / Ex. 5**

**Deliberative Process / Ex. 5**

HQ 404(c) memo has a section on Pebble; need to participate fully in the EIS process.

Western Congressional Caucus with Forsgren for signature. House Appropriations Committee response with OMB.

# **Deliberative Process / Ex. 5**

Message

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**From:** Anderson-Carnahan, Linda [anderson-carnahan.linda@epa.gov]  
**Sent:** 6/29/2018 10:48:09 PM  
**To:** Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]  
**Subject:** Conversation with Allnutt, David

# Deliberative Process / Ex. 5

Message

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**From:** Anderson-Carnahan, Linda [anderson-carnahan.linda@epa.gov]  
**Sent:** 6/29/2018 10:31:20 PM  
**To:** Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]  
**Subject:** Conversation with Allnutt, David

## **Deliberative Process / Ex. 5**

Message

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**From:** Anderson-Carnahan, Linda [anderson-carnahan.linda@epa.gov]  
**Sent:** 4/16/2018 10:01:01 PM  
**To:** Allnutt, David [Allnutt.David@epa.gov]; Holsman, Marianne [Holsman.Marianne@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]  
**Subject:** Conversation with Allnutt, David, Marianne Holsman

Anderson-Carnahan, Linda 2:41 PM:

Heather Dean is sending an E&E reporter request on Pebble on compensatory mitigation for wetlands your way Marianne.

Marianne Holsman 2:57 PM:

Good. Thanks!

Message

---

**From:** Anderson-Carnahan, Linda [anderson-carnahan.linda@epa.gov]  
**Sent:** 4/16/2018 9:49:33 PM  
**To:** Allnutt, David [Allnutt.David@epa.gov]; Holsman, Marianne [Holsman.Marianne@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]  
**Subject:** Conversation with Allnutt, David, Marianne Holsman

Anderson-Carnahan, Linda 2:41 PM:

Heather Dean is sending an E&E reporter request on Pebble on compensatory mitigation for wetlands your way Marianne.

Message

---

**From:** Barton, Justine [Barton.Justine@epa.gov]  
**Sent:** 10/24/2018 10:42:06 PM  
**To:** Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]  
**CC:** Nogi, Jill [nogi.jill@epa.gov]  
**Subject:** RE: Hot Topics from ERSMU today

Great, thanks Linda! ☺

.....  
Justine Barton | Ecologist | U.S. Environmental Protection Agency  
Sediment Management Unit | 1200 6<sup>th</sup> Avenue, Suite 155 | Seattle, WA 98101 | 206.553.6051 |  
barton.justine@epa.gov

---

**From:** Anderson-Carnahan, Linda  
**Sent:** Wednesday, October 24, 2018 3:29 PM  
**To:** Barton, Justine <Barton.Justine@epa.gov>  
**Cc:** Nogi, Jill <nogi.jill@epa.gov>  
**Subject:** RE: Hot Topics from ERSMU today

Non-Responsive: Unrelated to Bristol Bay/Pebble Mine I think Jill is covering the BB write up

Linda Anderson-Carnahan  
Associate Director  
Office of Environmental Review and Assessment  
US EPA Region 10  
Suite 155  
1200 Sixth Ave  
Seattle Wa, 98101  
Office: (206) 553-2601  
Cell: (206) 291-6879

---

**From:** Barton, Justine  
**Sent:** Wednesday, October 24, 2018 2:56 PM  
**To:** Anderson-Carnahan, Linda <Anderson-Carnahan.Linda@epa.gov>  
**Cc:** Nogi, Jill <nogi.jill@epa.gov>  
**Subject:** RE: Hot Topics from ERSMU today

OK, thanks for this...I don't use the Weekly and have just now been on the Infopage trying to Nonresponsive: Unrelated to Bristol Bay/Pebble Mine  
Unresponsive: Unrelated to Bristol Bay/Pebble Mine Pebble Draft Sections of DEIS write ups. I don't see either one, but I'm sure it's me. Thanks for putting them in!  
JB

.....  
Justine Barton | Ecologist | U.S. Environmental Protection Agency  
Sediment Management Unit | 1200 6<sup>th</sup> Avenue, Suite 155 | Seattle, WA 98101 | 206.553.6051 |  
barton.justine@epa.gov

---

**From:** Anderson-Carnahan, Linda  
**Sent:** Wednesday, October 24, 2018 2:49 PM  
**To:** Nogi, Jill <nogi.jill@epa.gov>; Allnutt, David <Allnutt.David@epa.gov>

**Cc:** Barton, Justine <[Barton.Justine@epa.gov](mailto:Barton.Justine@epa.gov)>

**Subject:** RE: Hot Topics from ERSMU today

Go ahead and put them in.

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

Linda Anderson-Carnahan  
Associate Director  
Office of Environmental Review and Assessment  
US EPA Region 10  
Suite 155  
1200 Sixth Ave  
Seattle Wa, 98101  
Office: (206) 553-2601  
Cell: (206) 291-6879

---

**From:** Nogi, Jill

**Sent:** Wednesday, October 24, 2018 2:27 PM

**To:** Allnutt, David <[Allnutt.David@epa.gov](mailto:Allnutt.David@epa.gov)>; Anderson-Carnahan, Linda <[Anderson-Carnahan.Linda@epa.gov](mailto:Anderson-Carnahan.Linda@epa.gov)>

**Cc:** Barton, Justine <[Barton.Justine@epa.gov](mailto:Barton.Justine@epa.gov)>

**Subject:** Hot Topics from ERSMU today

Double checking with you while I'm thinking of it. We have the Pebble Hot Topic in the Weekly, y

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**



Message

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**Sent:** 6/4/2018 3:06:59 PM  
**Subject:** natl wetland meeting notes

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

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**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

## Nonresponsive: Unrelated to Bristol Bay/Pebble Mine

- There are a lot of ongoing mine proposals in Ak that present significant 404 issues.
  - Probably the most significant is Pebble. I'm sure you've heard that the 404c proposed determination was left in place after we received lots of public comment.

### Deliberative Process / Ex. 5

### Deliberative Process / Ex. 5

### Deliberative Process / Ex. 5

We're currently looking at the application under the NEPA review process. We have 90 days to submit NEPA scoping comments. COE has informed EPA they will only consider comments regarding compliance with NEPA guidelines.

## Nonresponsive: Unrelated to Bristol Bay/Pebble Mine

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**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**





## Appointment

---

**From:** McGrath, Patricia [mcgrath.patricia@epa.gov]  
**Sent:** 7/9/2018 10:57:54 PM  
**To:** McGrath, Patricia [mcgrath.patricia@epa.gov]; Wernitz, James [Wernitz.James@epa.gov]; Detwiler, Susan K. [detwiler.susan@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]; Bilbrey, Sheryl [bilbrey.sheryl@epa.gov]; Opalski, Dan [Opalski.Dan@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]  
**Subject:** ET Mining Subgroup meeting  
**Attachments:** ET\_miningsubgroup\_summary\_201808.docx  
**Location:** R10IOO-ConflnMM-208-378-6511/IOO-Meet-Me-Ln/R10-IOO-Eqpt; R10Sea-Room-11Camas-ORC-VTC/R10-Rooms-Restricted  
**Start:** 8/7/2018 4:00:00 PM  
**End:** 8/7/2018 5:00:00 PM  
**Show Time As:** Tentative

Meeting of ET Mining Subgroup (Patty, Allyn, Dan, Jim W, Sheryl)

Dear ET Mining Subgroup-

Attached is the mining update for August. Areas highlighted in the update are those that I propose discussing during our meeting tomorrow, which include:

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

- Project-specific updates – Pebble, Stibnite, Kensington, Triumph

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

Patty

Message

---

**From:** Thiesing, Mary [Thiesing.Mary@epa.gov]  
**Sent:** 5/11/2018 5:04:46 PM  
**To:** Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]  
**Subject:** Fact Sheets  
**Attachments:** Excerpts from Pebble Draft Scoping Letter General & Aquatic Resources.docx; AKLNG CWA 404 Fact Sheet.docx; ASAP Fact Sheet May 2018.docx

**Flag:** Follow up

<!--[if lte mso 15 || CheckWebRef]-->

Thiesing, Mary has shared a OneDrive for Business file with you. To view it, click the link below.

 Donlin background 5-10-18.docx

<!--[endif]-->

Linda,

**Personal Matters / Ex. 6**

My apologies in getting you this information late; today. However, I am forwarding two fact sheets on the ASAP and AKLNG projects, as well as excerpts from our draft Pebble scoping letter.

**Deliberative Process / Ex. 5**

**Deliberative Process / Ex. 5**

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

Mary Anne Thiesing  
Regional Wetland Ecologist  
(206) 553-6114  
(206) 375-4772 (cell)  
thiesing.mary@epa.gov

Unextractable file placeholder

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

**Non-Responsive: Unrelated to Bristol Bay/Pebble Mine**

Message

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**From:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Sent:** 4/10/2018 7:57:28 PM  
**To:** R10-OERA Calendar [R10-OERA\_Calendar@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; LaCroix, Matthew [LaCroix.Matthew@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Combes, Marcia [Combes.Marcia@epa.gov]; Szerlog, Michael [Szerlog.Michael@epa.gov]  
**Subject:** RE: Bristol Bay Check-in

Agenda

- FOIA
- Donlin discussion
- Options paper follow-up
- Extension of scoping comment deadline to June 29 and revised internal review schedule.



**Erik Peterson**, NEPA Reviewer  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-6382

---

-----Original Appointment-----

**From:** R10-OERA Calendar  
**Sent:** Monday, February 05, 2018 10:13 AM  
**To:** R10-OERA Calendar; Allnutt, David; Anderson-Carnahan, Linda; McGrath, Patricia; Palomaki, Ashley; Steiner-Riley, Cara; Lindsay, Andrea; Skadowski, Suzanne; Nogi, Jill; LaCroix, Matthew; Vaughan, Molly; Hough, Palmer; Peterson, Erik; Nalven, Heidi; Fordham, Tami; Combes, Marcia; Szerlog, Michael  
**Subject:** Bristol Bay Check-in  
**When:** Wednesday, April 11, 2018 9:00 AM-10:00 AM (UTC-08:00) Pacific Time (US & Canada).  
**Where:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Conference Line/Code / Ex. 6**

**Conference Line/Code / Ex. 6**



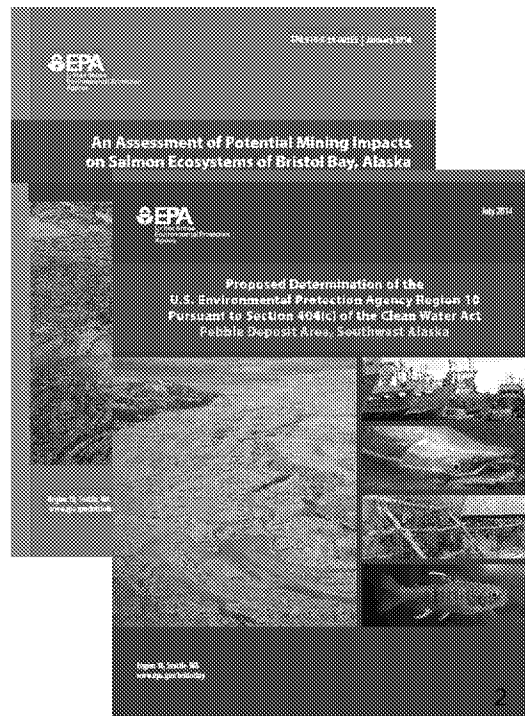
DRAFT

# ***EPA's Work in the Bristol Bay Watershed***

Presentation for Alaska Operations Office Director  
July 23, 2018



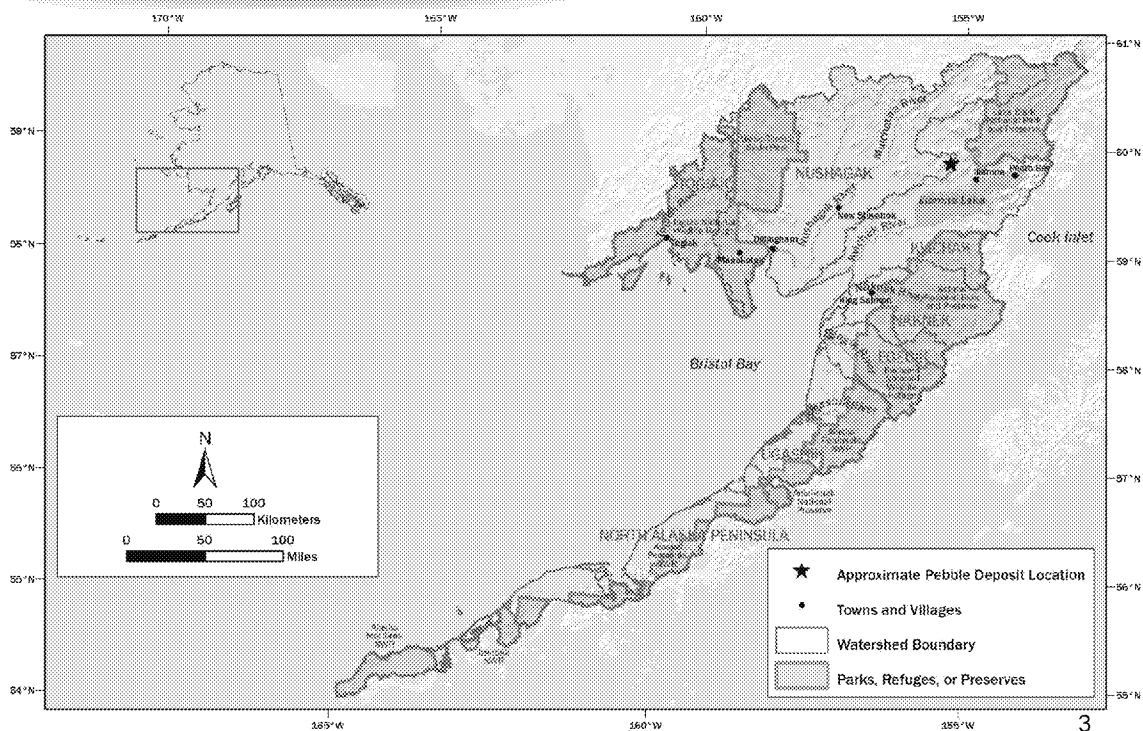
- EPA's Involvement History
- Science
- Section 404(c) Regulatory Response
- Section 404 Permitting and NEPA



# Bristol Bay Watershed



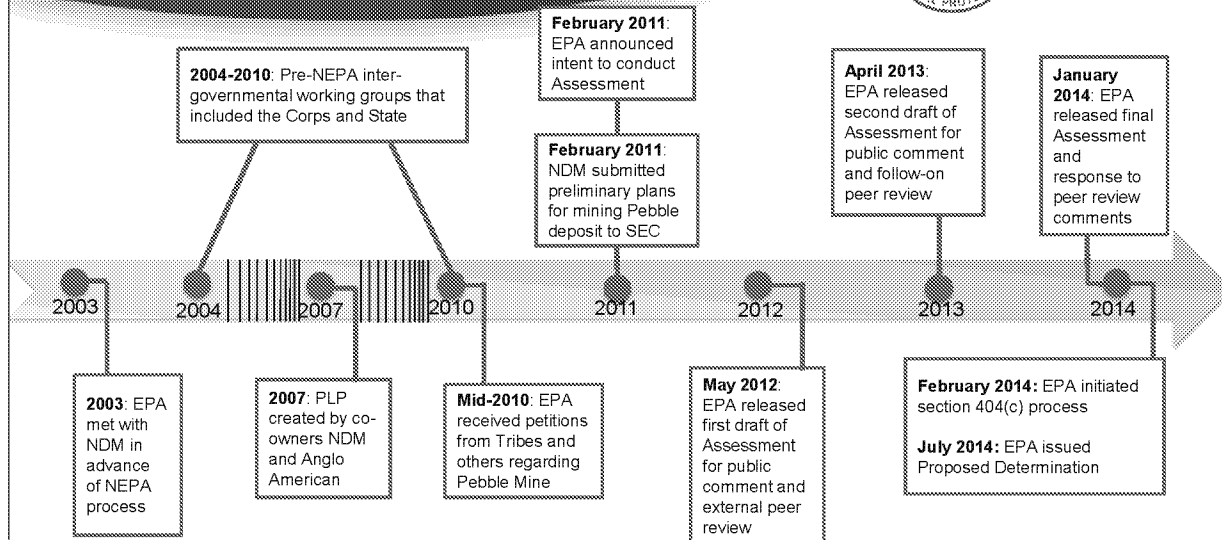
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# Timeline 2003 - 2014



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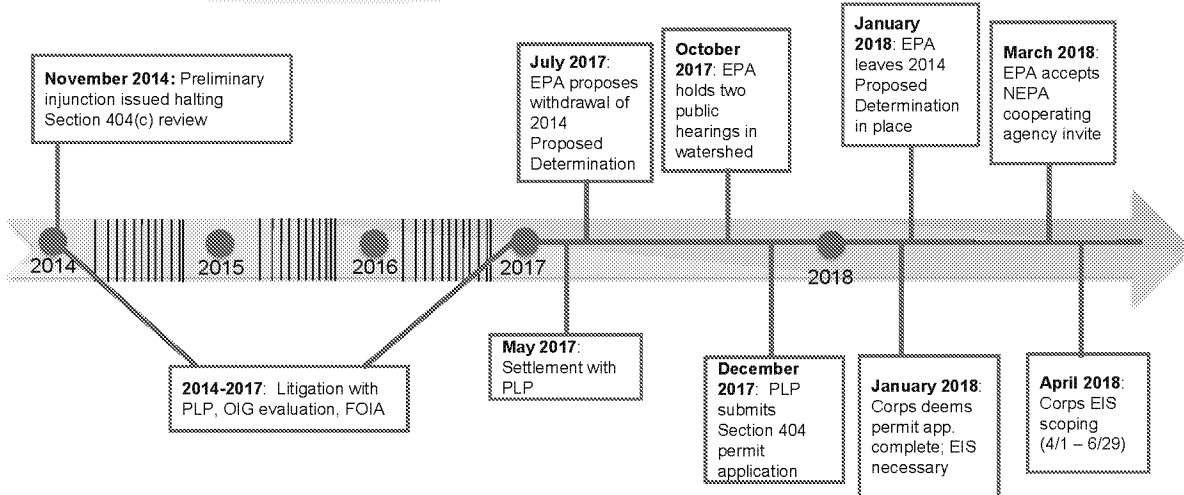


NDM = Northern Dynasty Minerals Ltd.  
 PLP = Pebble Limited Partnership  
 NEPA = National Environmental Policy Act  
 SEC = U.S. Securities and Exchange Commission

# Timeline 2014 - Present



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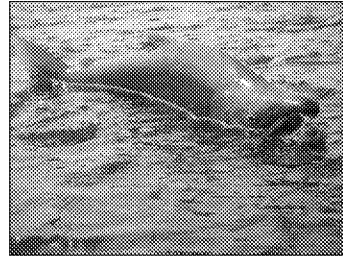
OIG = EPA Office of Inspector General  
PLP = Pebble Limited Partnership  
Corps = U.S. Army Corps of Engineers  
EIS = Environmental Impact Statement

# Bristol Bay Watershed Assessment



DRAFT

- **Purpose:**
  - Characterize the biological and mineral resources of the Bristol Bay watershed
  - Increase understanding of the potential impacts of large-scale mining on the region's fish resources
  - Inform future decision-making
- **Scientific Ecological Risk Assessment evaluating potential impacts associated with:**
  - Large-scale mine construction and operation
  - Accidents and failures
- **Three-year scientific assessment effort**
  - Independent external peer review
  - Stakeholder and public engagement
    - 8 public meetings
    - 2 rounds of public comment – over 1.1 million comments
  - Tribal consultations



# Bristol Bay Watershed Resources



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## Biological Resources:

- Bristol Bay produces almost half of world's sockeye salmon
- Kvichak watershed world's largest producer of sockeye salmon
- Nushagak watershed frequently at or near world's largest producer of Chinook salmon

### Biological Resources Support:

- 14,000 jobs, generates \$480 million annually in direct economic expenditures and sales
  - Salmon fishery valued at \$1.5 billion annually
- 4,000-year-old subsistence fishery for Alaska Natives

## Geological Resources:

- At least 10 claims with more than minimal exploration, including Pebble.
- Pebble deposit: low-grade, with copper, gold, and molybdenum
- According to NDM, Pebble could:
  - Be largest mine of its type in North America
  - Produce 3,000 jobs in AK
  - Contribute \$2.7 billion to US GDP annually
- Economics of mining the Pebble deposit are speculative
- Since 2001, five major mining companies have walked away from Pebble project

# Bristol Bay Watershed Assessment



- Mining scenarios informed by NDM plans submitted to U.S. Securities and Exchange Commission (SEC) in 2011
- Uses 3 potential stages of mine development at Pebble deposit
  - 0.25-billion-ton mine (worldwide median size porphyry copper deposit)
  - 2.0-billion-ton mine (smallest mine size proposed by NDM to SEC)
  - 6.5-billion-ton mine (largest mine size proposed by NDM to SEC)
- NDM says deposit is nearly 12 billion tons



# Bristol Bay Watershed Assessment



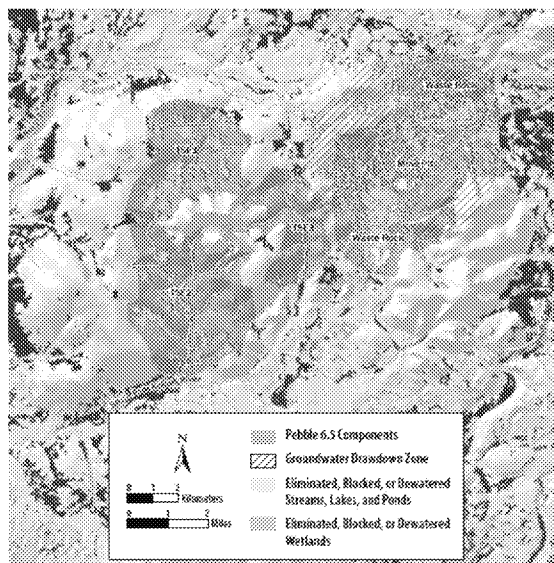
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## Mine Footprint Impacts:

- 24-94 miles of salmon-supporting streams destroyed
- 1,300-5,350 acres of wetlands, ponds, lakes destroyed
- 9-33 miles of salmon-supporting streams with altered streamflow likely to affect ecosystem structure and function

## Other Impacts:

- Tailings dams need maintenance in perpetuity
- Routine operations and accidents would increase impacts on salmon habitat quality, both at the mining site and along the 86-mile transportation corridor.





- § 404(a) authorizes the Secretary of the Army to issue **permits**
  - For the discharge of dredged or fill material into waters of the U.S. at specified disposal sites
- § 404(b) directs the Secretary of the Army to apply **environmental criteria** developed by EPA when specifying disposal sites
  - § 404(b)(1) Guidelines [40 CFR Part 230]
- § 404(c) authorizes EPA to prohibit, deny or restrict (withdraw) the placement of dredged or fill material at defined sites in waters of the U.S.

# Limits of Section 404(c)



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- **Whenever** it determines, after notice and opportunity for public hearing, that the discharge of such materials into such area will have an **unacceptable adverse effect(s)** on:
  - Municipal water supplies; or
  - Shellfish beds and **fishery areas**; or
  - Wildlife; or
  - Recreation areas.



# Pebble Deposit 404(c) Process



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## Step 1

- 2/28/14: **Initiation by EPA Region 10 – “15-day letter”**
- Consulted with Corps, NDM/PLP, and State

## Step 2

- 7/18/14: **Proposed Determination** released (PD) by EPA Region 10
- 8/12-15/14: 7 public hearings in Alaska
- > 670,000 written comments; > 99% (86% unique) supported Proposed Determination

## Step 3

- EPA Region 10 will review the public comments
- EPA Region 10 will withdraw PD or prepare **Recommended Determination** (RD)

## Step 4

- **Final Determination (FD) by EPA Assistant Administrator for Water**
- Consult again with Corps, NDM/PLP, and State
- Within 60 days of receipt of RD, issue FD affirming, modifying, or rescinding RD

# What Are the Proposed Restrictions?



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Restrict the discharge of dredged or fill material related to mining the Pebble deposit into waters of the U.S. that would, individually or collectively, result in the following:

**1. Loss of Streams.**

- a. The loss of 5 or more linear miles of streams with documented anadromous fish occurrence; **or**
- b. The loss of 19 or more linear miles of streams where anadromous fish are not currently documented, but that are tributaries of streams with documented anadromous fish occurrence; **or**

**2. Loss of Wetlands, Lakes, and Ponds.** The loss of 1,100 or more acres of wetlands, lakes, and ponds contiguous with either streams with documented anadromous fish occurrence or tributaries of those streams; **or**

**3. Streamflow Alterations.** Streamflow alterations greater than 20% of daily flow in 9 or more linear miles of streams with documented anadromous fish occurrence

# Response to Section 404(c) Proceeding



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- **Office of Inspector General (OIG) Review**
  - 17-month in-depth evaluation found no evidence of bias or a pre-determined outcome
  - Possible misuse of position for retired Region 10 employee noted
- **PLP broad Freedom of Information Act (FOIA) requests**
  - Approximately 18,000 documents produced
- **PLP filed three lawsuits in 2014**
  - Administrative Procedure Act (APA) challenge to initiation of 404(c) process
  - FOIA litigation
  - Federal Advisory Committee Act (FACA) litigation
- **May 2017 settlement agreement**
  - Resolved FOIA and FACA litigation and PLP's outstanding FOIA requests



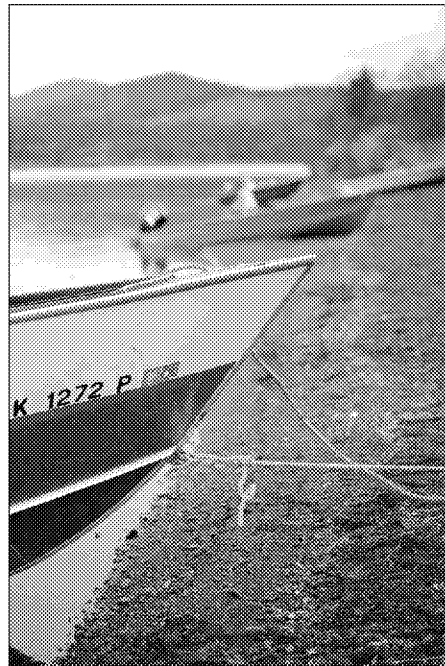
- Key terms of the May 11, 2017 settlement agreement between PLP and EPA:
  - EPA may use its Bristol Bay Watershed Assessment without limitation
  - EPA agrees to initiate a process to propose to withdraw its 2014 Proposed Determination by July 11, 2017
  - EPA agrees not to forward a Recommended Determination (the next step in the 404(c) review process) to EPA HQ until a Final EIS is noticed for the project or May 11, 2021, whichever is earlier
  - PLP drops remaining lawsuits and fee requests against EPA and agrees to file no new FOIA requests during the 2.5- to 4-year hiatus period

# Proposal to Withdraw 2014 Proposed Determination



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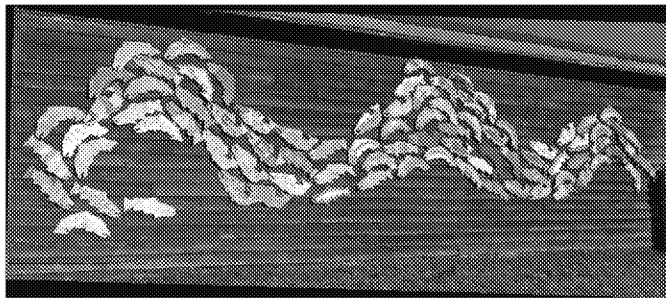
- July 2017: Withdrawal proposed based on policy rationale
  - EPA did not solicit comment on the proposed restrictions or on science or technical information underlying the Proposed Determination
- Outreach and Consultation
  - Proposal generated >1 million comments (~99% opposed)
  - 2 public hearings in watershed
  - Tribal and ANCSA Consultation
    - 16 tribal governments and 1 ANCSA Regional Corp. opposed
    - 1 tribal government and 2 ANCSA Village Corps. supported





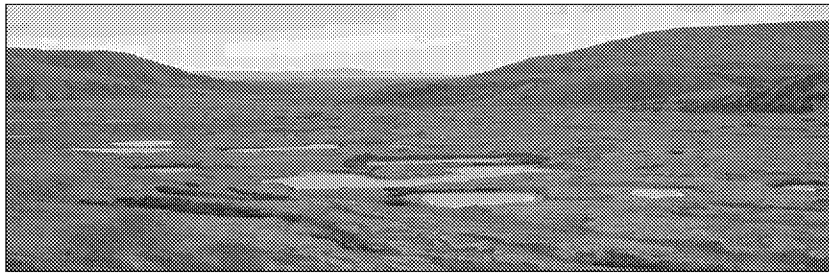


- In January 2018 EPA decided not to withdraw and suspended Section 404(c) process pending further review
- Settlement agreement obligations
  - EPA can issue a new/modified Proposed Determination at any time
  - EPA Region 10 cannot forward a Recommended Determination to EPA HQ until May of 2021 or until a final EIS is noticed, whichever comes first



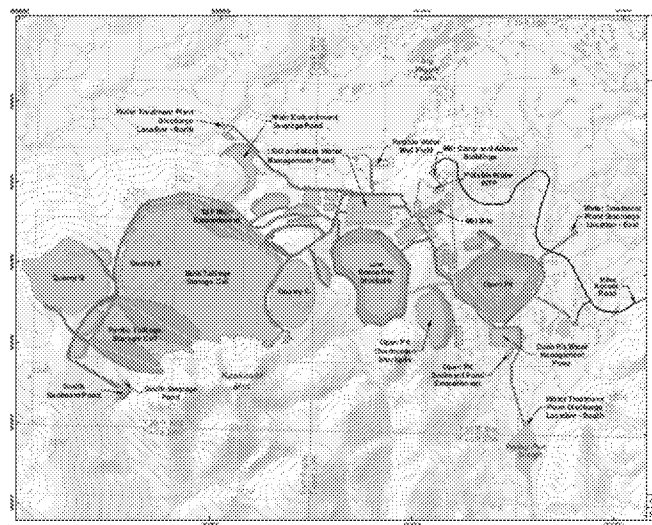


- PLP filed Department of Army (DA) permit application to the Corps in December 2017
  - Includes CWA 404 and RHA Section 10
  - Includes Project Description: mine, power supply, transportation
- Corps deemed application sufficient to begin NEPA



Pebble deposit area

- 1.3 billion tons of ore mined over 20 years
- 160,000 tons/day of ore processed to produce:
  - Copper concentrate
  - Molybdenum concentrate
  - Gold via gravity separation
- Open pit mine, ore storage pile, 2 tailings impoundments
- 2 water treatment plants and 3 discharge outfalls
- Closure
  - PAG waste rock & pyritic tailings backfilled into open pit
  - Dry closure of bulk tailings
  - Long-term water treatment



# Project Description

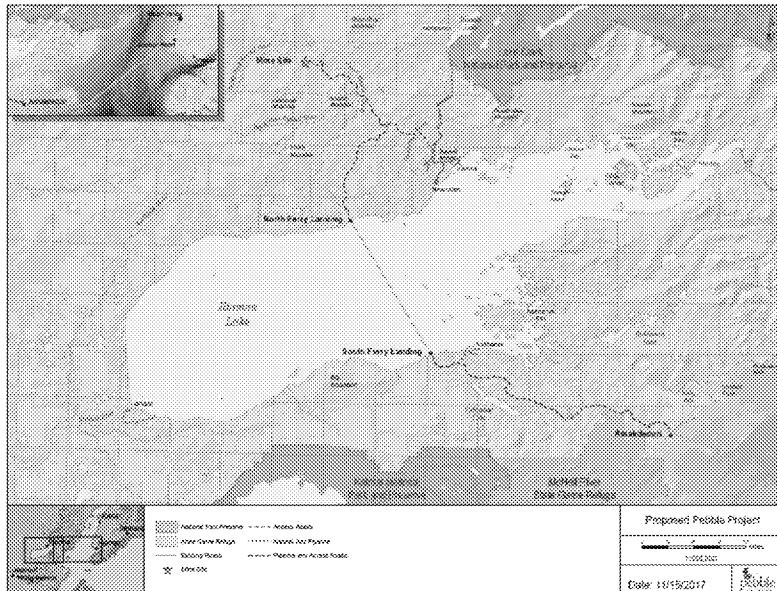


## Power

- 230 - 270 MW power plant at mine site
- 188 mile natural gas pipeline

## Transportation

- 65 miles of roads
- Ferry across Lake Illiamna
- Cook Inlet port site



# Project Description



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- Proposed mine is:
  - Smaller than 2011 Preliminary Assessment to SEC
  - Larger than the EPA Assessment's 0.25 billion ton mine scenario, which is the basis for the 2014 Proposed Determination

| 2014 Proposed Determination   |
|---|
| Loss of 5 or more miles of streams with anadromous fish; or   |
| Loss of 19 or more miles of streams that are tributaries of anadromous fish streams; or   |
| Loss of 1100 or more acres of wetlands, lakes and ponds contiguous with streams or tributaries to streams that have anadromous fish; or |
| Stream flow alteration > 20% of daily flow in 9 or more miles of streams with anadromous fish   |

| 2017 DA Application                           |                 |
|---|-----------------|
| component                                     | wetlands filled |
| Mine site                                     | 3190            |
| Transportation (roads, ferry terminals, port) | 480             |
| Pipeline                                      | 408             |
| TOTAL   | 4078            |

- Differences from 2011 Preliminary Assessment and EPA's Assessment:
  - Less waste rock mined
  - No cyanide leaching
  - Liners (pyritic tailings)
  - Advanced water treatment and "Physical Habitat Simulation System" to mitigate dewatering
  - Compensatory mitigation - TBD
- Project description could evolve during EIS and 404 review

# Initial Corps NEPA & 404 Process



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- Corps issued informational Public Notice of application (January 5, 2018)
  - Did not request public comment at this time
- Corps Cooperating Agency Plan specifies agency involvement.
  - EPA's cooperating agency involvement is limited to Section 404(b)(1) issues
- EIS scoping occurred April 1 through June 29
  - EPA submitted scoping letter
- Corps is developing preliminary EIS sections
  - EPA reviewing and providing comments where requested



- Corps EIS schedule:
  - Draft EIS – January 2019
  - Final EIS – late 2019
  - Record of Decision – early 2020
- PLP has requested inclusion of the project in FAST 41 infrastructure & critical minerals streamlining

Corps' Pebble website  
<https://pebbleprojecteis.com/>



- **Federal**
  - DOT Pipeline and Hazardous Materials Safety Administration
  - US Coast Guard
  - DOI Bureau of Safety and Environmental Enforcement
  - US Fish and Wildlife Service
  - National Park Service
  - Advisory Council on Historic Preservation
  - EPA
- **State**
  - Alaska Department of Natural Resources Office of Project Management and Permitting coordinates state agencies (ADNR, ADEC, ADFG, SHPO)
- **Local Governments**
  - Lake & Peninsula Borough & Kenai Peninsula Borough
- **Tribes**
  - Curyung Tribal Council
  - Nondalton Tribal Council





- EPA Role
  - NEPA
    - Cooperating agency
    - CAA 309 review of the Draft EIS
  - Clean Water Act
    - CWA 404 permit application & 404(b)(1) review
    - Oversight of State CWA 402 Alaska Pollutant Discharge Elimination System Permit
  - Clean Air Act
    - Oversight of State Air Quality Permit
- EPA has developed a cross-programmatic, multi-disciplinary team



## **R10 Management Team**

- David Allnutt, OERA Director
- Krista Mendelman, Acting ARU Manager
- Jill Nogi, NEPA Unit Manager
- Cara Steiner-Riley, ORC Unit Manager
- Sue Detwiler, AOO Director
- Marianne Holsman, Public Affairs Director

## **CWA 404(c) Team**

- Erik Peterson, Team lead
- Annie Whitley, ARU
- Palmer Hough, OW
- Brittany Bennett, OW
- Ashley Palomaki, ORC
- Heidi Nalven, OGC

## **NEPA/Permit Oversight Team**

- Patty McGrath, Team lead
- Molly Vaughn, NEPA review
- Mark Douglas, ARU
- Palmer Hough, OW
- Justine Barton, ARU
- Mary Anne Thiesing, ARU
- Cindi Godsey, NPDES
- Jay McAlpine, Air
- Karl Pepple, Air
- Chis Eckley (geochemist), OERA
- Tim Maley (hydrogeologist), OERA
- Kate Schofield, ORD
- Joe Ebersole (fisheries), ORD
- Muluken Muche (hydrological modelling), ORD

## **Tribal, Press & Community Support to CWA 404(c) and NEPA/Permit Teams**

- Neverley Wake, Tribal Coordinator
- Suzanne Skadowski, Press
- Andi Lindsay, Community Involvement Coordinator



Upper Talarik Creek, one of three streams flowing from the Pebble deposit site

Message

**From:** Storm, Linda [Storm.Linda@epa.gov]  
**Sent:** 5/8/2018 2:10:23 PM  
**To:** Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]  
**CC:** Mendelman, Krista [Mendelman.Krista@epa.gov]  
**Subject:** FW: My input/thoughts RE: Preparing Linda AC for National Wetlands Meeting - feedback by Thursday

**Importance:** High  
**Flag:** Follow up

Hi there Linda;

This is the input I provided to Krista more broadly as suggestions for your pre-briefing and requests for your role in going to the National 404/Wetlands meeting. Krista encouraged me to send this to you directly so you could see my requests and suggestions.

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

Cheers,  
Linda



Linda E. Storm, Aquatic Ecologist  
U.S. EPA, Region 10 – Aquatic Resources Unit  
Office of Environmental Review and Assessment  
1200 Sixth Avenue, Mail Stop OERA-140  
Seattle, Washington 98101-3140  
Ofc: (206) 553-6384; Cell: (206) 437-2293  
Email: storm.linda@epa.gov

**From:** Storm, Linda  
**Sent:** Thursday, May 03, 2018 12:14 PM  
**To:** Mendelman, Krista <Mendelman.Krista@epa.gov>  
**Subject:** My input/thoughts RE: Preparing Linda AC for National Wetlands Meeting - feedback by Thursday  
**Importance:** High

Thanks Krista! Here's my input for how Linda could be prepared for the National meeting. I would like her to be asked specifically to take in the information and report back to all of us about what she hears.

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

**Day 1 – 5/15**

**Regional Update - Round Table**

We should prepare her so she can give a thorough update on Hot Topics on our R10 workstreams :

- 1) High Priority Corps PN/NEPA EIS workload (Pebble, **Nonresponsive: Unrelated to Bristol Bay/Pebble Mine** ng) – All including David's input

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

# Nonresponsive: Unrelated to Bristol Bay/Pebble Mine

Hoping this is helpful/useful!  
Linda



Linda E. Storm, Aquatic Ecologist  
U.S. EPA, Region 10 – Aquatic Resources Unit  
Office of Environmental Review and Assessment  
1200 Sixth Avenue, Mail Stop OERA-140  
Seattle, Washington 98101-3140  
Ofc: (206) 553-6384; Cell: (206) 437-2293  
Email: [storm.linda@epa.gov](mailto:storm.linda@epa.gov)

**From:** Mendelman, Krista

**Sent:** Tuesday, May 01, 2018 6:06 PM

**To:** Colowick, Susan <[colowick.susan@epa.gov](mailto:colowick.susan@epa.gov)>; Dean, Heather <[Dean.Heather@epa.gov](mailto:Dean.Heather@epa.gov)>; Douglas, Mark <[douglas.mark@epa.gov](mailto:douglas.mark@epa.gov)>; LaCroix, Matthew <[LaCroix.Matthew@epa.gov](mailto:LaCroix.Matthew@epa.gov)>; Nadeau, Tracie-Lynn <[Nadeau.Tracie@epa.gov](mailto:Nadeau.Tracie@epa.gov)>; Peak, Tracy <[Peak.Tracy@epa.gov](mailto:Peak.Tracy@epa.gov)>; Storm, Linda <[Storm.Linda@epa.gov](mailto:Storm.Linda@epa.gov)>; Thiesing, Mary <[Thiesing.Mary@epa.gov](mailto:Thiesing.Mary@epa.gov)>; Whitley, Annie <[Whitley.Annie@epa.gov](mailto:Whitley.Annie@epa.gov)>; Bujak, Charissa <[bujak.charissa@epa.gov](mailto:bujak.charissa@epa.gov)>; Rave-Perkins, Krista <[Rave-Perkins.Krista@epa.gov](mailto:Rave-Perkins.Krista@epa.gov)>; Vallette, Yvonne <[Vallette.Yvonne@epa.gov](mailto:Vallette.Yvonne@epa.gov)>

**Subject:** Preparing Linda AC for National Wetlands Meeting - feedback by Thursday

ARU and WWEU Team,

I know you all are super busy and this is one more thing so I am sorry ... I spoke with Linda AC about briefing her before she attends the National Wetland meeting and she would really appreciate that so she can go in prepared. Please look at the attached agenda and let me know what topics you would like to brief her on and how long you think you would need by Thursday COB. I will follow up with her and we can set up some times to talk with her.

Thank you so much,

Krista

Krista Mendelman  
US EPA Region 10 MS:OWW-193  
1200 6<sup>th</sup> Ave. Suite 900  
Seattle WA 98101  
206-553-1571



OERA All Staff Agenda

August 16, 2018

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

11:15 – 11:30 am

*Pebble Mine* – Update from Recent Trip to AK, Patty McGrath, Eric Peterson,  
Chris Eckley, Theo Mbabaliye

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**



**From:** Thiesing, Mary [Thiesing.Mary@epa.gov]  
**Sent:** 7/30/2018 3:01:59 PM  
**To:** Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]  
**Subject:** RE: Henry Darwin BB-Pebble briefing

## Deliberative Process / Ex. 5

### Deliberative Process / Ex. 5

**From:** Anderson-Carnahan, Linda  
**Sent:** Monday, July 30, 2018 6:57 AM  
**To:** Thiesing, Mary <Thiesing.Mary@epa.gov>  
**Subject:** FW: Henry Darwin BB-Pebble briefing

Hi, I have a couple questions on the briefing:

## Deliberative Process / Ex. 5

Linda Anderson-Carnahan  
Associate Director  
Office of Environmental Review and Assessment  
US EPA Region 10  
Suite 155  
1200 Sixth Ave  
Seattle Wa, 98101  
Office: (206) 553-2601  
Cell: (206) 291-6879

---

**From:** McGrath, Patricia  
**Sent:** Thursday, July 26, 2018 1:56 PM  
**To:** Hladick, Christopher <hladick.christopher@epa.gov>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov>  
**Cc:** Anderson-Carnahan, Linda <Anderson-Carnahan.Linda@epa.gov>; Palomaki, Ashley <Palomaki.Ashley@epa.gov>; Peterson, Erik <Peterson.Erik@epa.gov>; Islam, Mahbubul <Islam.Mahbubul@epa.gov>  
**Subject:** Henry Darwin BB-Pebble briefing

Hi Chris and Michelle-

Palmer informed us of a briefing tomorrow related to Pebble. The briefing materials are those used to brief Sue Detwiler on Monday.

It looks like Chris has been invited. Will you be able to participate? Please let me know if you need any support or have questions.

Patty

---

**From:** Hough, Palmer  
**Sent:** Thursday, July 26, 2018 1:26 PM  
**To:** Palomaki, Ashley <Palomaki.Ashley@epa.gov>; Peterson, Erik <Peterson.Erik@epa.gov>; Anderson-Carnahan, Linda <Anderson-Carnahan.Linda@epa.gov>; McGrath, Patricia <mcgrath.patricia@epa.gov>  
**Subject:** FW: AOO director briefing materials

Folks:

I just wanted to give you a heads-up that the materials that you used to brief the new AOO will be used tomorrow to brief Henry Darwin, EPA's chief of operations.

It is my understanding that Lee Forsgren will be leading the briefing and John Goodin and Brian Frazer from OWOW will be present as well. Brian indicated that Chris Hladick has also been invited but it is not clear that he has accepted this invite.

That is basically all I know about this briefing.

-Palmer

---

**From:** Palomaki, Ashley  
**Sent:** Monday, July 23, 2018 2:22 PM  
**To:** Hough, Palmer <[Hough.Palmer@epa.gov](mailto:Hough.Palmer@epa.gov)>  
**Subject:** FW: AOO director briefing materials

**Ashley Palomaki**  
Assistant Regional Counsel  
U.S. EPA Region 10 Office of Regional Counsel  
1200 Sixth Avenue, Suite 155, ORC-113  
Seattle, WA 98101  
206-553-8582

---

**From:** McGrath, Patricia  
**Sent:** Tuesday, July 17, 2018 11:32 AM  
**To:** Peterson, Erik <[Peterson.Erik@epa.gov](mailto:Peterson.Erik@epa.gov)>; Palomaki, Ashley <[Palomaki.Ashley@epa.gov](mailto:Palomaki.Ashley@epa.gov)>  
**Subject:** AOO director briefing materials

Hi Erik and Ashley-  
Attached is the PP and script, with edits accepted, for the briefing with Sue next Monday.  
Patty

**Patty McGrath | Mining Advisor**  
U.S. Environmental Protection Agency, Region 10  
1200 Sixth Avenue, Seattle, WA 98101  
M/S: RAD-202  
Office: (206) 553-6113  
Cell: (206) 743-7068  
[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)

Message

---

**From:** Dean, Heather [Dean.Heather@epa.gov]  
**Sent:** 5/21/2018 8:57:09 PM  
**To:** Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]  
**Subject:** Re: THANKS

Thanks, Linda.

---

**From:** Anderson-Carnahan, Linda  
**Sent:** Thursday, May 17, 2018 9:17 AM  
**To:** Thiesing, Mary; Storm, Linda; Vallette, Yvonne; Dean, Heather; Douglas, Mark; Mendelman, Krista; Szerlog, Michael  
**Subject:** THANKS

Thanks for letting me represent you at the national wetlands meeting and for all your excellent briefings – I felt well prepared! It was a great experience and I enjoyed engaging with the other regions on key issues (and

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

## Nonresponsive: Unrelated to Bristol Bay/Pebble Mine

- There are a lot of ongoing mine proposals in Ak that present significant 404 issues.
  - Probably the most significant is Pebble. I'm sure you've heard that the 404c proposed determination was left in place after we received lots of public comment. Deliberative Process / Ex. 5Deliberative Process / Ex. 5  
Deliberative Process / Ex. 5 We're currently looking at the application under the NEPA review process. We have 90 days to submit NEPA scoping comments. COE has informed EPA they will only consider comments regarding compliance with NEPA guidelines.

## Nonresponsive: Unrelated to Bristol Bay/Pebble Mine

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**



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**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

Seattle Wa, 98101  
Office: (206) 553-2601  
Cell: (206) 291-6879

Message

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**From:** Storm, Linda [Storm.Linda@epa.gov]  
**Sent:** 5/17/2018 6:20:50 PM  
**To:** Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]  
**Subject:** RE: THANKS

Thank you!



**Linda E. Storm, Aquatic Ecologist**  
U.S. EPA, Region 10 – Aquatic Resources Unit  
Office of Environmental Review and Assessment  
1200 Sixth Avenue, Mail Stop OERA-140  
Seattle, Washington 98101-3140  
Ofc: (206) 553-6384; Cell: (206) 437-2293  
Email: storm.linda@epa.gov

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**From:** Anderson-Carnahan, Linda  
**Sent:** Thursday, May 17, 2018 9:17 AM  
**To:** Thiesing, Mary <Thiesing.Mary@epa.gov>; Storm, Linda <Storm.Linda@epa.gov>; Vallette, Yvonne <Vallette.Yvonne@epa.gov>; Dean, Heather <Dean.Heather@epa.gov>; Douglas, Mark <douglas.mark@epa.gov>; Mendelman, Krista <Mendelman.Krista@epa.gov>; Szerlog, Michael <Szerlog.Michael@epa.gov>  
**Subject:** THANKS

Thanks for letting me represent you at the national wetlands meeting and for all your excellent briefings – I felt well prepared! It was a great experience and I enjoyed engaging with the other regions on key issues (and I learned a lot). It

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

## Nonresponsive: Unrelated to Bristol Bay/Pebble Mine

- There are a lot of ongoing mine proposals in Ak that present significant 404 issues.
    - Probably the most significant is Pebble. I'm sure you've heard that the 404c proposed determination was left in place after we received lots of public comment. **Deliberative Process / Ex. 5**
- Deliberative Process / Ex. 5**
- Deliberative Process / Ex. 5** We're currently looking at the application under the NEPA review process. We have 90 days to submit NEPA scoping comments. COE has informed EPA they will only consider comments regarding compliance with NEPA guidelines.

## Nonresponsive: Unrelated to Bristol Bay/Pebble Mine



**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

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**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

1200 Sixth Ave  
Seattle Wa, 98101  
Office: (206) 553-2601  
Cell: (206) 291-6879

Message

---

**From:** Anderson-Carnahan, Linda [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=C34CC9BE6AB74896B7EA15338CBE41EB-ANDERSON-CARNAHAN, LINDA]  
**Sent:** 5/15/2018 3:44:39 AM  
**To:** Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

- There are a lot of ongoing mine proposals in Ak that present significant 404 issues.
  - Probably the most significant is Pebble. I'm sure you've heard that the 404c proposed determination was left in place after we received lots of public comment.

**Deliberative Process / Ex. 5**

**Deliberative Process / Ex. 5**

**Deliberative Process / Ex. 5**

We're currently looking at the application under the NEPA review process. We have 90 days to submit NEPA scoping comments and COE has informed EPA they will only consider comments regarding compliance with NEPA guidelines.

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

Message

---

**From:** Anderson-Carnahan, Linda [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=C34CC9BE6AB74896B7EA15338CBE41EB-ANDERSON-CARNAHAN, LINDA]  
**Sent:** 5/15/2018 7:09:54 PM  
**CC:** Douglas, Mark [douglas.mark@epa.gov]  
**Subject:** RE: Pebble hand off

Way to go Mark!! Thanks – this will fit in well with your IDP and career goals!

Linda Anderson-Carnahan  
Associate Director  
Office of Environmental Review and Assessment  
US EPA Region 10  
Suite 155  
1200 Sixth Ave  
Seattle Wa, 98101  
Office: (206) 553-2601  
Cell: (206) 291-6879

---

**From:** Mendelman, Krista  
**Sent:** Tuesday, May 15, 2018 12:05 PM  
**To:** Allnutt, David <Allnutt.David@epa.gov>; Anderson-Carnahan, Linda <Anderson-Carnahan.Linda@epa.gov>  
**Cc:** Douglas, Mark <douglas.mark@epa.gov>; LaCroix, Matthew <LaCroix.Matthew@epa.gov>; Thiesing, Mary <Thiesing.Mary@epa.gov>; Szerlog, Michael <Szerlog.Michael@epa.gov>  
**Subject:** Pebble hand off

Hi David and Linda,

Mark Douglas has bravely stepped forward to be the lead on Pebble taking over for Matt. There will obviously be a transition between Matt and Mark with Mary Anne supporting Mark through a team approach. This is something that Michael S and I have discussed and Michael is supportive.

Krista

---

Krista Mendelman  
US EPA Region 10 MS:OWW-193  
1200 6<sup>th</sup> Ave. Suite 900  
Seattle WA 98101  
206-553-1571



Message

---

**From:** Anderson-Carnahan, Linda [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=C34CC9BE6AB74896B7EA15338CBE41EB-ANDERSON-CARNAHAN, LINDA]  
**Sent:** 5/15/2018 3:46:17 AM  
**To:** Thiesing, Mary [Thiesing.Mary@epa.gov]  
**Subject:** my notes - take a quick look

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

## Nonresponsive: Unrelated to Bristol Bay/Pebble Mine

- There are a lot of ongoing mine proposals in Ak that present significant 404 issues.
  - Probably the most significant is Pebble. I'm sure you've heard that the 404c proposed determination was left in place after we received lots of public comment.

**Deliberative Process / Ex. 5**

**Deliberative Process / Ex. 5**

**Deliberative Process / Ex. 5**

We're currently looking at the application under the NEPA review process. We have 90 days to submit NEPA scoping comments and COE has informed EPA they will only consider comments regarding compliance with NEPA guidelines.

## Nonresponsive: Unrelated to Bristol Bay/Pebble Mine

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

## Appointment

---

**From:** Anderson-Carnahan, Linda [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=C34CC9BE6AB74896B7EA15338CBE41EB-ANDERSON-CARNAHAN, LINDA]  
**Sent:** 7/5/2018 8:28:02 PM  
**To:** Fordham, Tami [Fordham.Tami@epa.gov]  
**Subject:** Declined: Pebble Overview for AOO Director  
**Location:** R10AOO-Room-Raven-25-VTC/R10-Rooms-AOO; R10Sea-Room-14WallaWalla/R10-Rooms-Service-Center  
**Start:** 7/23/2018 6:00:00 PM  
**End:** 7/23/2018 7:00:00 PM  
**Show Time As:** Busy

Personal Matters / Ex. 6

## Appointment

---

**From:** Anderson-Carnahan, Linda [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=C34CC9BE6AB74896B7EA15338CBE41EB-ANDERSON-CARNAHAN, LINDA]  
**Sent:** 7/5/2018 8:27:29 PM  
**To:** Nogi, Jill [nogi.jill@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]; Szerlog, Michael [Szerlog.Michael@epa.gov]  
**Subject:** FW: Pebble Overview for AOO Director  
**Location:** R10AOO-Room-Raven-25-VTC/R10-Rooms-AOO; R10Sea-Room-14WallaWalla/R10-Rooms-Service-Center  
**Start:** 7/23/2018 6:00:00 PM  
**End:** 7/23/2018 7:00:00 PM  
**Show Time As:** Tentative

-----Original Appointment-----

**From:** Fordham, Tami  
**Sent:** Thursday, July 5, 2018 12:29 PM  
**To:** Fordham, Tami; McGrath, Patricia; Palomaki, Ashley; Douglas, Mark; Detwiler, Susan K.; R10AOO-  
**Conference** **Conference Line/Code / Ex. 6**  
**Cc:** Vaughan, Molly; Anderson-Carnahan, Linda; Peterson, Erik; Steiner-Riley, Cara  
**Subject:** Pebble Overview for AOO Director  
**When:** Monday, July 23, 2018 10:00 AM-11:00 AM (UTC-09:00) Alaska.  
**Where:** R10AOO-Room-Raven-25-VTC/R10-Rooms-AOO; R10Sea-Room-14WallaWalla/R10-Rooms-Service-Center

Sue and I will be in Seattle, looking forward to seeing most of you in person. Thanks! Tami

---

### → [Join Skype Meeting](#)

This is an online meeting for Skype for Business, the professional meetings and communications app formerly known as Lync.

### [Join by Phone](#)

**Conference Line/Code / Ex. 6**

[Help](#)

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Message

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**From:** Anderson-Carnahan, Linda [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=C34CC9BE6AB74896B7EA15338CBE41EB-ANDERSON-CARNAHAN, LINDA]  
**Sent:** 7/3/2018 9:40:55 PM  
**To:** Nogi, Jill [nogi.jill@epa.gov]  
**Subject:** FW: notes from ET meeting - for sharing Wed.  
**Attachments:** ATT41060; ATT92661; ATT24302; ATT13428

Linda Anderson-Carnahan  
Associate Director  
Office of Environmental Review and Assessment  
US EPA Region 10  
Suite 155  
1200 Sixth Ave  
Seattle Wa, 98101  
Office: (206) 553-2601  
Cell: (206) 291-6879

---

**From:** Allnutt, David  
**Sent:** Monday, July 2, 2018 3:31 PM  
**To:** Anderson-Carnahan, Linda <Anderson-Carnahan.Linda@epa.gov>  
**Subject:** notes from ET meeting - for sharing Wed.

Sr. Staff -- Michelle

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

Chris

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

Michelle

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

Roundtable:

- Sue D.
  - Governor Walker's letter re: Pebble getting a lot of press attention
    - Andy Mack (DNR Commissioner) quoted as saying: Pebble must prove that mine will have "zero impact" on fisheries.

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine**

Me:

Nonresponsive: Unrelated to Bristol Bay/Pebble Mine

- Pebble-related items:
  - Last Wednesday's Memo from Pruitt directing OW to propose a rule modifying EPA's 404(c) procedures
    - Included discussion of Pebble with the following quote:
      - "It is critical for the agency to participate in the EIS process and review the final EIS"
  - Last Friday's deadline to submit scoping comments to the Corps on the Pebble project EIS
    - R10 submitted two-page letter and 24-page enclosure on Friday. Recommendations include analyzing:
      - Aquatic resource impacts
        - And compensatory mitigation for unavoidable impacts
      - Potential for ocean disposal of dredged material
      - Reasonably foreseeable cumulative and indirect effects resulting from transportation infrastructure
      - Air quality impacts
      - Climate-adaptation
      - Financial assurance

- Gov. Walker submitted letter requesting that the Corps "suspend environmental review" pending completion of "preliminary economic assessment"

## Nonresponsive: Unrelated to Bristol Bay/Pebble Mine



**R. David Allnutt**, Director  
Office of Environmental Review and Assessment  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-2581





Message

---

**From:** Anderson-Carnahan, Linda [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=C34CC9BE6AB74896B7EA15338CBE41EB-ANDERSON-CARNAHAN, LINDA]  
**Sent:** 8/15/2018 7:43:06 PM  
**To:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Subject:** RE: Bristol Bay Check-in

Sounds great

Linda Anderson-Carnahan  
Associate Director  
Office of Environmental Review and Assessment  
US EPA Region 10  
Suite 155  
1200 Sixth Ave  
Seattle Wa, 98101  
Office: (206) 553-2601  
Cell: (206) 291-6879

---

**From:** Peterson, Erik  
**Sent:** Wednesday, August 15, 2018 12:42 PM  
**To:** Anderson-Carnahan, Linda <Anderson-Carnahan.Linda@epa.gov>  
**Subject:** RE: Bristol Bay Check-in

Thank you for letting me know. I suggest that we cancel the check-in and switch over to setting something up with you if the need arises. Does that sound ok to you?

---

<< OLE Object: Picture  
(Device Independent Bitmap)  
>>

**Erik Peterson**, NEPA Reviewer  
U.S. EPA, Region 10  
1200 Sixth Avenue, Suite 155  
Seattle, Washington 98101-3140  
(206) 553-6382

---

-----Original Appointment-----

**From:** Anderson-Carnahan, Linda  
**Sent:** Wednesday, August 15, 2018 12:10 PM  
**To:** Peterson, Erik  
**Subject:** Declined: Bristol Bay Check-in  
**When:** Tuesday, August 28, 2018 9:00 AM-10:00 AM (UTC-08:00) Pacific Time (US & Canada).  
**Where:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

Nonresponsive Discussion of Personal Matters / Ex. 6

## Appointment

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**From:** Anderson-Carnahan, Linda [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=c34cc9be6ab74896b7ea15338cbe41eb-Anderson-Carnahan, Linda]  
**Sent:** 8/15/2018 7:10:16 PM  
**To:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Subject:** Declined: Bristol Bay Check-in  
**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center  
**Start:** 8/28/2018 4:00:00 PM  
**End:** 8/28/2018 5:00:00 PM  
**Show Time As:** Busy

**Nonresponsive Discussion of Personal Matters / Ex.**

**6**

Message

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**From:** Anderson-Carnahan, Linda [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=C34CC9BE6AB74896B7EA15338CBE41EB-ANDERSON-CARNAHAN, LINDA]  
**Sent:** 9/7/2018 10:26:39 PM  
**To:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Subject:** RE: Bristol Bay Check-in 9/11/18 - Cancellation and Update

Nicely done Erik!

Linda Anderson-Carnahan  
Associate Director  
Office of Environmental Review and Assessment  
US EPA Region 10  
Suite 155  
1200 Sixth Ave  
Seattle Wa, 98101  
Office: (206) 553-2601  
Cell: (206) 291-6879

---

**From:** Peterson, Erik  
**Sent:** Friday, September 7, 2018 3:17 PM  
**To:** Fordham, Tami <Fordham.Tami@epa.gov>; Allnutt, David <Allnutt.David@epa.gov>; Anderson-Carnahan, Linda <Anderson-Carnahan.Linda@epa.gov>; McGrath, Patricia <mcgrath.patricia@epa.gov>; Palomaki, Ashley <Palomaki.Ashley@epa.gov>; Steiner-Riley, Cara <Steiner-Riley.Cara@epa.gov>; Lindsay, Andrea <Lindsay.Andrea@epa.gov>; Skadowski, Suzanne <Skadowski.Suzanne@epa.gov>; Nogi, Jill <nogi.jill@epa.gov>; Douglas, Mark <douglas.mark@epa.gov>; Vaughan, Molly <Vaughan.Molly@epa.gov>; Hough, Palmer <Hough.Palmer@epa.gov>; Nalven, Heidi <Nalven.Heidi@epa.gov>; Mendelman, Krista <Mendelman.Krista@epa.gov>; Stern, Allyn <Stern.Alyn@epa.gov>  
**Cc:** Detwiler, Susan K. <detwiler.susan@epa.gov>; Chu, Rebecca <Chu.Rebecca@epa.gov>  
**Subject:** Bristol Bay Check-in 9/11/18 - Cancellation and Update

Hello,

Welcome back David! Given that you are out on September 11, we are canceling the check-in and the Bristol Bay Teams have the following update for you. We plan on having the Bristol Bay Check-in on September 25<sup>th</sup> at 9:00 am PST.

## Updates

### Permit Oversight/ NEPA Review Team

#### Scoping Document

- EPA reviewed and commented on the draft scoping document that describes the significant issues raised in scoping. The final scoping document is available on the Corp's Pebble EIS website.

#### Preliminary EIS review

- EPA reviewed and commented on specific portions of chapter 3 (affected environment) and chapter 4 (environmental consequences) that pertain to our areas of special expertise as identified by the Corps which includes: aesthetics, surface water hydrology, groundwater hydrology, water and sediment quality, wetlands, vegetation

- The documents have many placeholders since there have been changes to the proposed action, alternatives have yet to be developed, and there are numerous substantial requests for additional information where the Corps is awaiting response from PLP.

#### Deliberative Process / Ex. 5

#### Alternatives

- The Corps is developing the range of alternatives to be analyzed in the EIS. We participated in a cooperating agency meeting and provided input. During the week of Sept 10, the Corps is to submit a detailed discussion of the alternatives selected for EIS review and rationale for those dismissed.

#### Site Visits

- July 9 – 11: CWA 404 field verification was completed by Mark Douglas
- July 31: Site visit with some of our NEPA team (Patty, Molly, Tim, Chris) to view the mine site, proposed Lake Iliamna port sites, and portions of the proposed roads.

#### Schedule

- The Corps Pebble EIS website identifies a draft EIS in January 2019 and a final EIS in late 2019.

#### 404(c) Team

#### FOIA

- NRDC and CNN FOIA: extended until end 9/28/18 as we work on ex-Administrator's office employee non-email electronic records. Making progress.
- Trustees for Alaska FOIA: interim release of Corps equities documents on 8/31 and deadline extended until 10/31/18 to facilitate coordination between R10 and HQ on the remaining documents.

#### Representative DeFazio and Senator Carper letter response

- This July 2018 letter asks for Wheeler to revoke the June 2018 memo issued by Pruitt, describe his view of proper use of 404(c) and the Mingo Logan case, and, describe current and planned EPA actions regarding Pebble.
- EPA's response was uploaded to CMS for Lee F's signature on 8/27

#### Interest group letter to EPA

- This 9/6/18 letter to EPA from 15 interest groups (including, for example, the Competitive Enterprise Institute) urges Wheeler to rescind the proposed determination and applauds the June 2018 memo issued by Pruitt.
- If this letter is controlled for a response, HQ will share a draft with R10.

#### External Meetings

- Henry Darwin met with Pebble representatives the week of 8/2/18. The 404(c) Team uploaded a note of this meeting to our external meetings folder on share point.
- We want to emphasize our interest for external meetings at all levels to be recorded with: topic, date, attendees, agenda and notes.

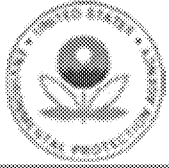
#### PLP letter, memo to file

#### Deliberative Process / Ex. 5

---

**Erik Peterson**, NEPA Reviewer  
 U.S. EPA, Region 10  
 1200 Sixth Avenue, Suite 155  
 Seattle, Washington 98101-3140  
 (206) 553-6382

---



-----Original Appointment-----

**From:** Peterson, Erik

**Sent:** Tuesday, June 12, 2018 4:15 PM

**To:** Fordham, Tami; Peterson, Erik; Allnutt, David; Anderson-Carnahan, Linda; McGrath, Patricia; Palomaki, Ashley; Steiner-Riley, Cara; Lindsay, Andrea; Skadowski, Suzanne; Nogi, Jill; Douglas, Mark; Vaughan, Molly; Hough, Palmer; Nalven, Heidi; Mendelman, Krista; Stern, Allyn

**Cc:** Detwiler, Susan K.; Chu, Rebecca

**Subject:** Bristol Bay Check-in

**When:** Tuesday, September 11, 2018 9:00 AM-10:00 AM (UTC-08:00) Pacific Time (US & Canada).

**Where:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

Moving the bi-weekly Bristol Bay Check-in from Wednesdays to Tuesdays at 9:00 AM PST starting July 30<sup>th</sup>.

Erik Peterson will email the agenda prior to the meeting.

### → Join by Phone

Conference Line/Code / Ex. 6

### → Meeting Organizer

Erik Peterson, USEPA (206) 553-6382 office

Message

---

**From:** Anderson-Carnahan, Linda [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=C34CC9BE6AB74896B7EA15338CBE41EB-ANDERSON-CARNAHAN, LINDA]  
**Sent:** 7/30/2018 3:19:47 PM  
**To:** McGrath, Patricia [mcgrath.patricia@epa.gov]  
**Subject:** RE: Henry Darwin BB-Pebble briefing

I haven't heard but will try to check during the ET meeting.

Linda Anderson-Carnahan  
Associate Director  
Office of Environmental Review and Assessment  
US EPA Region 10  
Suite 155  
1200 Sixth Ave  
Seattle Wa, 98101  
Office: (206) 553-2601  
Cell: (206) 291-6879

---

**From:** McGrath, Patricia  
**Sent:** Monday, July 30, 2018 8:04 AM  
**To:** Anderson-Carnahan, Linda <Anderson-Carnahan.Linda@epa.gov>  
**Subject:** Re: Henry Darwin BB-Pebble briefing

No. I never heard back from Chris or Michelle. Do you know if they participated?

Sent from my iPhone

On Jul 30, 2018, at 6:56 AM, Anderson-Carnahan, Linda <Anderson-Carnahan.Linda@epa.gov> wrote:

Thanks Patty. Were you able to participate?

Linda Anderson-Carnahan  
Associate Director  
Office of Environmental Review and Assessment  
US EPA Region 10  
Suite 155  
1200 Sixth Ave  
Seattle Wa, 98101  
Office: (206) 553-2601  
Cell: (206) 291-6879

---

**From:** McGrath, Patricia  
**Sent:** Thursday, July 26, 2018 1:56 PM  
**To:** Hladick, Christopher <hladick.christopher@epa.gov>; Pirzadeh, Michelle <Pirzadeh.Michelle@epa.gov>  
**Cc:** Anderson-Carnahan, Linda <Anderson-Carnahan.Linda@epa.gov>; Palomaki, Ashley <Palomaki.Ashley@epa.gov>; Peterson, Erik <Peterson.Erik@epa.gov>; Islam, Mahbubul <Islam.Mahbubul@epa.gov>  
**Subject:** Henry Darwin BB-Pebble briefing

Hi Chris and Michelle-

Palmer informed us of a briefing tomorrow related to Pebble. The briefing materials are those used to brief Sue Detwiler on Monday.

It looks like Chris has been invited. Will you be able to participate? Please let me know if you need any support or have questions.

Patty

---

**From:** Hough, Palmer

**Sent:** Thursday, July 26, 2018 1:26 PM

**To:** Palomaki, Ashley <[Palomaki.Ashley@epa.gov](mailto:Palomaki.Ashley@epa.gov)>; Peterson, Erik <[Peterson.Erik@epa.gov](mailto:Peterson.Erik@epa.gov)>; Anderson-Carnahan, Linda <[Anderson-Carnahan.Linda@epa.gov](mailto:Anderson-Carnahan.Linda@epa.gov)>; McGrath, Patricia <[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)>

**Subject:** FW: AOO director briefing materials

Folks:

I just wanted to give you a heads-up that the materials that you used to brief the new AOO will be used tomorrow to brief Henry Darwin, EPA's chief of operations.

It is my understanding that Lee Forsgren will be leading the briefing and John Goodin and Brian Frazer from OWOW will be present as well. Brian indicated that Chris Hladick has also been invited but it is not clear that he has accepted this invite.

That is basically all I know about this briefing.

-Palmer

---

**From:** Palomaki, Ashley

**Sent:** Monday, July 23, 2018 2:22 PM

**To:** Hough, Palmer <[Hough.Palmer@epa.gov](mailto:Hough.Palmer@epa.gov)>

**Subject:** FW: AOO director briefing materials

**Ashley Palomaki**

Assistant Regional Counsel

U.S. EPA Region 10 Office of Regional Counsel

1200 Sixth Avenue, Suite 155, ORC-113

Seattle, WA 98101

206-553-8582

---

**From:** McGrath, Patricia

**Sent:** Tuesday, July 17, 2018 11:32 AM

**To:** Peterson, Erik <[Peterson.Erik@epa.gov](mailto:Peterson.Erik@epa.gov)>; Palomaki, Ashley <[Palomaki.Ashley@epa.gov](mailto:Palomaki.Ashley@epa.gov)>

**Subject:** AOO director briefing materials

Hi Erik and Ashley-

Attached is the PP and script, with edits accepted, for the briefing with Sue next Monday.

Patty

**Patty McGrath | Mining Advisor**

U.S. Environmental Protection Agency, Region 10

1200 Sixth Avenue, Seattle, WA 98101

M/S: RAD-202

Office: (206) 553-6113

Cell: (206) 743-7068

[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)



## Appointment

---

**From:** Anderson-Carnahan, Linda [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=C34CC9BE6AB74896B7EA15338CBE41EB-ANDERSON-CARNAHAN, LINDA]  
**Sent:** 7/11/2018 5:14:30 PM  
**To:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Subject:** Declined: Bristol Bay Check-in  
**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center  
**Start:** 7/31/2018 4:00:00 PM  
**End:** 7/31/2018 5:00:00 PM  
**Show Time As:** Busy

I have a meeting with Lee Forsgren at this time; can we reschedule?

## Appointment

---

**From:** Lovell, Will (William) [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=3b150bb6ade640f68d744fadcb83a73e-Lovell, Wil]  
**Sent:** 8/27/2018 5:21:19 PM  
**To:** Bolen, Brittany [bolen.brittany@epa.gov]  
**CC:** Forsgren, Lee [Forsgren.Lee@epa.gov]  
**BCC:** DCRoomARN3500/OPEI [DCRoomARN3500@epa.gov]  
  
**Subject:** Meet w/Pebble Partnership  
**Location:** DCRoomARN3500/OPEI  
  
**Start:** 9/4/2018 2:00:00 PM  
**End:** 9/4/2018 2:30:00 PM  
**Show Time As:** Busy

Tom Collier, CEO  
Peter Robertson, Senior Vice President  
Ryan Thompson

Message

**From:** Burton, Tamika [burton.tamika@epa.gov]  
**Sent:** 7/26/2018 9:03:15 PM  
**Subject:** Friday 27, July 2018 | Schedule for Assistant Deputy Administrator and Chief of Operations

**Schedule for Assistant Deputy Administrator and Chief of  
Operations  
Henry Darwin**

Friday, July 27 2018

|   |                     |   |
|---|---------------------|---|
| ■ | 9:00 AM – 10:00 AM  | <b>Nonresponsive: Unrelated to Bristol Bay/Pebble Mine.</b>                 |
| ■ | 10:00 AM – 10:30 AM |   |
| ■ | 10:30 AM – 11:00 AM |   |
| ■ | 11:00 AM – 11:30 AM |   |
| ■ | 11:30 AM – 12:00 PM |   |
| ■ | 12:30 PM – 1:00 PM  | <u>Pebble Mine - briefing material added*</u><br>WJCN 3412<br>Darwin, Henry |
| ■ | 1:00 PM – 1:30 PM   | <b>Nonresponsive: Unrelated to Bristol Bay/Pebble Mine.</b>                 |
| ■ | 2:00 PM – 2:30 PM   |   |
| ■ | 2:00 PM – 2:30 PM   |   |
| ■ | 2:30 PM – 3:00 PM   |   |
| ■ | 3:00 PM – 3:30 PM   |   |
| ■ | 3:30 PM – 5:00 PM   |   |
| ■ | 4:00 PM – 4:30 PM   |   |

*Tamika Burton  
Staff Assistant to the Acting Deputy Administrator And Chief of Operations  
Immediate Office of the Administrator  
MC 1104A Room 3412 WJC North*

(202) 564-4771 (d)  
(202) 507-3630 (c)  
[burton.tamika@epa.gov](mailto:burton.tamika@epa.gov)



Message

---

**From:** Carroll, Carly [Carroll.Carly@epa.gov]  
**Sent:** 4/6/2018 6:48:00 PM  
**Subject:** Weekly Report for 04.06.18  
**Attachments:** Weekly Report 04.06.2018.docx; Weekly Report 04.06.2018.pdf

Good Afternoon,  
Please find the weekly report for the week ending 04.06.18 attached.

Have a good weekend,

Carly Carroll  
U.S. Environmental Protection Agency  
(202) 564-2769  
carroll.carly@epa.gov

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine.**

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**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine.**



## Region 10

### Hot Topics:

None.

### Upcoming Major Decisions and Events:

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine.**

**Pebble Mine Project NEPA Scoping Period Begins (AK):** On March 29th, the Army Corps of Engineers Alaska District published a Notice of Intent in the Federal Register initiating the formal scoping process for the Pebble Mine Environmental Impact Statement. The 30-day scoping period began on April 1st and will include nine public meetings. Numerous requests have already been submitted to the Corps requesting an extension to the scoping period. EPA's Pebble NEPA team will be developing scoping comments.

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine.**

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**Non-Responsive: Unrelated to Bristol Bay/Pebble Mine**

**Non-Responsive: Unrelated to Bristol Bay/Pebble Mine**

## Region 10

### Hot Topics:

None.

### Upcoming Major Decisions and Events:

**Non-Responsive: Unrelated to Bristol Bay/Pebble Mine**

**Pebble Mine Project NEPA Scoping Period Begins (AK):** On March 29th, the Army Corps of Engineers Alaska District published a Notice of Intent in the Federal Register initiating the formal scoping process for the Pebble Mine Environmental Impact Statement. The 30-day scoping period began on April 1st and will include nine public meetings. Numerous requests have already been submitted to the Corps requesting an extension to the scoping period. EPA's Pebble NEPA team will be developing scoping comments.

**Non-Responsive: Unrelated to Bristol Bay/Pebble Mine**

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**Non-Responsive: Unrelated to Bristol Bay/Pebble Mine**

Message

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**From:** Eng, Connie [Eng.Connie@epa.gov]  
**Sent:** 9/28/2018 8:21:05 PM  
**Subject:** RE: Calendar for Associate Deputy Administrator and Chief of Operations Henry Darwin for Monday, October 1, 2018

**ASSOCIATE DEPUTY ADMINISTRATOR AND CHIEF OF OPERATIONS  
HENRY DARWIN**

▲ Monday, October 1

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine.**



3:30 PM – 4:00 PM [Bristol Bay Intro](#)  
Teleconference

**Nonresponsive: Unrelated to Bristol Bay/Pebble Mine.**

Thanks.

Have a great day!

*Connie*

\*\*\*\*\*

*Connie Eng*  
*U.S. Environmental Protection Agency*  
*Office of the Administrator*  
*1200 Pennsylvania Avenue, N.W.*  
*William Jefferson Clinton Building North, Room 3412 (MC1101A)*  
*Washington, DC 20460*  
*Phone: 202-564-3279*  
*Email: [eng.connie@epa.gov](mailto:eng.connie@epa.gov)*  
AO Sharepoint

Message

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**From:** Burton, Tamika [burton.tamika@epa.gov]  
**Sent:** 8/1/2018 8:50:44 PM  
**Subject:** Thursday, August 1, 2018 | Associate Deputy Administrator and Chief of Operations Henry Darwin

**Associate Deputy Administrator and Chief of Operations  
Henry Darwin**

Thu, August 2, 2018

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**Non-Responsive: Unrelated to Bristol Bay/Pebble Mine**

10:00 AM – 11:00 AM [Pebble Mine Discussion](#)  
WJCN 3412

**Non-Responsive: Unrelated to Bristol Bay/Pebble Mine**

*Tamika Burton*  
*Staff Assistant to the Office of the Deputy Administrator*  
*Immediate Office of the Administrator*  
*MC 1104A Room 3412 WJC North*  
*(202) 564-4771 (d)*  
*(202) 507-3630 (c)*  
*burton.tamika@epa.gov*





Message

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**From:** Bolen, Brittany [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=31E872A691114372B5A6A88482A66E48-BOLEN, BRIT]  
**Sent:** 7/31/2018 6:51:36 PM  
**To:** Lovell, Will (William) [lovell.william@epa.gov]  
**Subject:** Fwd: Meeting request

Can you check with Tamika on this? To save time, I can attend Henry's scheduled meeting.

Sent from my iPhone

Begin forwarded message:

**From:** "Thompson, Ryan" <[thompsonr@akingump.com](mailto:thompsonr@akingump.com)>  
**Date:** July 30, 2018 at 12:28:08 PM EDT  
**To:** Brittany Bolen <[bolen.brittany@epa.gov](mailto:bolen.brittany@epa.gov)>  
**Subject:** Meeting request

Brittany,

I hope you are well! I wanted to reach out on behalf of our client the Pebble Partnership. The CEO of Pebble, Tom Collier, will be in Washington this week and will be meeting with the Acting Deputy Administrator at 10am on Aug 2nd. I am not sure if you will join that meeting as well, but if not, I wanted to see if you had any time to meet briefly with Tom on Wednesday or Thursday? The objective of the meeting would be to bring you up to speed on the latest regarding the project.

Thanks in advance for considering,

-Ryan

**Ryan Day Thompson**  
**AKIN GUMP STRAUSS HAUER & FELD LLP**

Mobile: 202.236.7885 | [thompsonr@akingump.com](mailto:thompsonr@akingump.com) | [akingump.com](http://akingump.com) | [Bio](#)

The information contained in this e-mail message is intended only for the personal and confidential use of the recipient(s) named above. If you have received this communication in error, please notify us immediately by e-mail, and delete the original message.

## Appointment

---

**From:** Fordham, Tami [Fordham.Tami@epa.gov]  
**Sent:** 7/5/2018 7:29:28 PM  
**To:** Fordham, Tami [Fordham.Tami@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Detwiler, Susan K. [detwiler.susan@epa.gov];  
**CC:** **Conference Line/Code / Ex. 6**  
Peterson, Erik [Peterson.Erik@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]; Szerlog, Michael [Szerlog.Michael@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]  
**Subject:** Pebble Overview for AOO Director  
**Location:** R10AOO-Room-Raven-25-VTC/R10-Rooms-AOO; R10Sea-Room-14WallaWalla/R10-Rooms-Service-Center  
**Start:** 7/23/2018 6:00:00 PM  
**End:** 7/23/2018 7:00:00 PM  
**Show Time As:** Busy

Sue and I will be in Seattle, looking forward to seeing most of you in person. Thanks! Tami

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### → Join Skype Meeting

This is an online meeting for Skype for Business, the professional meetings and communications app formerly known as Lync.

**Conference Line/Code / Ex. 6**

[Help](#)

---

## Appointment

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**From:** Palomaki, Ashley [Palomaki.Ashley@epa.gov]  
**Sent:** 7/5/2018 9:42:09 PM  
**To:** Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; **Conference Line/Code / Ex. 6**  
**Conference Line/Code / Ex. 6**  
**Subject:** Prep for AOO Director Bristol Bay Overview  
**Attachments:** BB Presentation\_1282018\_pm\_ACP.pptx; Bristol Bay Script - Tomiak brief\_ACP\_pm.docx  
**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center  
**Start:** 7/9/2018 6:00:00 PM  
**End:** 7/9/2018 6:30:00 PM  
**Show Time As:** Tentative

Hi –

Attached is the most recent Bristol Bay presentation and script (this was used for OFA in January). The section on Pebble's permit application will need to be updated and we'll need to figure out who's doing what.

**Conference Line/Code /  
Ex. 6**

Thanks,

Ashley

## Appointment

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**From:** R10-OERA Calendar [R10-OERA\_Calendar@epa.gov]  
**Sent:** 6/26/2018 3:00:51 PM  
**To:** R10-OERA Calendar [R10-OERA\_Calendar@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Szerlog, Michael [Szerlog.Michael@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; LaCroix, Matthew [LaCroix.Matthew@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Combes, Marcia [Combes.Marcia@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]  
**CC:** Douglas, Mark [douglas.mark@epa.gov]; Detwiler, Susan K. [detwiler.susan@epa.gov]

**Subject:** FW: Bristol Bay Check-in

**Attachments:** Untitled Attachment

**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center;

Conference Line/Code / Ex. 6

**Start:** 6/20/2018 4:00:00 PM

**End:** 6/20/2018 5:00:00 PM

**Show Time As:** Tentative

**Recurrence:** Weekly  
every 2 week(s) on Wednesday from 9:00 AM to 10:00 AM

Hi Mark, I didn't see you on the recipient list. Krista

-----Original Appointment-----

**From:** R10-OERA Calendar

**Sent:** Wednesday, May 16, 2018 10:11 AM

**To:** R10-OERA Calendar; Allnutt, David; Anderson-Carnahan, Linda; McGrath, Patricia; Palomaki, Ashley; Szerlog, Michael; Steiner-Riley, Cara; Lindsay, Andrea; Skadowski, Suzanne; Nogi, Jill; LaCroix, Matthew; Vaughan, Molly; Hough, Palmer; Peterson, Erik; Nalven, Heidi; Fordham, Tami; Combes, Marcia; Mendelman, Krista; Stern, Allyn

**Subject:** Bristol Bay Check-in

**When:** Occurs every 2 week(s) on Wednesday effective 6/20/2018 until 7/18/2018 from 9:00 AM to 10:00 AM (UTC-08:00) Pacific Time (US & Canada).

**Where:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center;

Conference Line/Code / Ex. 6

## Appointment

---

**To:** Mendelman, Krista [Mendelman.Krista@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; R10-OERA Calendar [R10-OERA\_Calendar@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Szerlog, Michael [Szerlog.Michael@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; LaCroix, Matthew [LaCroix.Matthew@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Combes, Marcia [Combes.Marcia@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]

**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]

**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center;

**Conference Line/Code / Ex. 6**

**Start:** 7/3/2018 4:00:00 PM

**End:** 7/3/2018 5:00:00 PM

**Show Time As:** Busy

**Recurrence:** (none)

-----Original Appointment-----

**From:** R10-OERA Calendar

**Sent:** Wednesday, May 16, 2018 10:11 AM

**To:** R10-OERA Calendar; Allnutt, David; Anderson-Carnahan, Linda; McGrath, Patricia; Palomaki, Ashley; Szerlog, Michael; Steiner-Riley, Cara; Lindsay, Andrea; Skadowski, Suzanne; Nogi, Jill; LaCroix, Matthew; Vaughan, Molly; Hough, Palmer; Peterson, Erik; Nalven, Heidi; Fordham, Tami; Combes, Marcia; Mendelman, Krista; Stern, Allyn

**Subject:** Bristol Bay Check-in

**When:** Tuesday, July 03, 2018 9:00 AM-10:00 AM (UTC-08:00) Pacific Time (US & Canada).

**Where:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center;

**Conference Line/Code / Ex. 6**

## Appointment

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**From:** Peterson, Erik [Peterson.Erik@epa.gov]  
**Sent:** 6/12/2018 11:14:40 PM  
**To:** Peterson, Erik [Peterson.Erik@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]  
**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]; Thiesing, Mary [Thiesing.Mary@epa.gov]

**Subject:** Bristol Bay Check-in  
**Attachments:** Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment  
**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Start:** 7/31/2018 4:00:00 PM  
**End:** 7/31/2018 5:00:00 PM  
**Show Time As:** Busy

**Recurrence:** Weekly  
every 2 week(s) on Tuesday from 9:00 AM to 10:00 AM

Erik Peterson will email the agenda prior to the meeting.

### → Join by Phone

Conference Line/Code / Ex. 6

### → Meeting Organizer

Erik Peterson, USEPA (206) 553-6382 office

## Appointment

---

**To:** Stern, Allyn [Stern.Allyn@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]

**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]

**Location:** R10Sea-Room-14WallaWalla/R10-Rooms-Service-Center

**Start:** 12/4/2018 5:00:00 PM

**End:** 12/4/2018 6:00:00 PM

**Recurrence:** (none)

### Agenda

NEPA preliminary EIS comments

Briefing

FOIA

Information Quality Act Request for Correction or Withdrawal

404c rulemaking

→ Join by Phone

Conference Line/Code / Ex. 6

→ Meeting Organizer

Erik Peterson, USEPA (206) 553-6382 office

## Appointment

---

**To:** Peterson, Erik [Peterson.Erik@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]

**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]

**Location:** R10Sea-Room-14WallaWalla/R10-Rooms-Service-Center

**Start:** 10/9/2018 4:00:00 PM

**End:** 10/9/2018 5:00:00 PM

**Recurrence:** (none)

## Agenda

### 404(c) Team

#### Congressional responses (Palmer)

- Western Caucus (Gosar et al) – newly OW-approved, not issued
- DeFazio and Carper – just revised, based on newly OW-approved, not issued Western Caucus response
- Lamar Smith – just drafted, based on newly OW-approved, not issued Western Caucus response

#### FOIA (Ashley)

- E&E News – new request for unredacted copies
- McKeever FOIA Lawsuit – next steps
- NRDC and CNN – working with the AOs office
- Trustees for Alaska – options for Justin Schwab review
- Trustees for Alaska 2 – new FOIA
- Back-up (Erik)

#### External Correspondence (Erik)

- Recent activity and approach

### Permit Oversight/ NEPA Review Team

#### Timing a Brittany Bolen briefing?

#### Site Visits

- July 9 – 11: CWA 404 field verification was completed by Mark Douglas
- July 31: Site visit with some of our NEPA team (Patty, Molly, Tim, Chris) to view the mine site, proposed Lake Iliamna port sites, and portions of the proposed roads

#### NEPA/EIS document reviews - completed

- Scoping Document: In August we submitted comments on the draft scoping document that describes the significant issues raised in scoping. The final scoping document is available on the Corp's Pebble EIS website.
- Preliminary EIS Sections: In July and August, we reviewed and commented on specific portions of chapter 3 (affected environment) and chapter 4 (environmental consequences) that pertain to our areas of special



expertise as identified by the Corps which includes: aesthetics, surface water hydrology, groundwater hydrology, water and sediment quality, wetlands, vegetation)

- The documents have many placeholders since there have been changes to the proposed action, alternatives have yet to be finalized, and there are numerous substantial requests for additional information where the Corps is awaiting response from PLP.
- Alternatives: On October 3, we submitted comments on draft Appendix B (Alternatives Development Process). Previously we participated in a cooperating agency meeting and provided verbal input on the alternatives development process and some of the potential alternatives.

NEPA/EIS document reviews – upcoming

- The Corps has indicated that they will be sending us draft DEIS sections on 11/9 with comments due by 11/21. We have requested more time for review (30 days review period).

Schedule

- The Corps Pebble EIS website identifies estimated dates for a draft EIS in January 2019 and a final EIS in late 2019.

## → Join by Phone

Conference Line/Code / Ex. 6

## → Meeting Organizer

Erik Peterson, USEPA (206) 553-6382 office

## Appointment

---

**To:** Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]

**CC:** Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]; Detwiler, Susan K. [detwiler.susan@epa.gov]; Chu, Rebecca [Chu.Rebecca@epa.gov]

**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Start:** 11/20/2018 5:00:00 PM

**End:** 11/20/2018 6:00:00 PM

**Recurrence:** (none)

### Agenda

#### **Permit Oversight/ NEPA Review Team**

Preliminary EIS review

#### **404(c) Team**

NEPA/404c coordination

Competitive Enterprise Institute Information Quality Act Request for Correction or Withdrawal Regarding Bristol Bay Watershed Assessment

#### **FOIA**

- E&E News (011614)
- McKeever FOIA Lawsuit
- Trustees for Alaska 2 (0135)
- HQ FOIA Role

#### **Congressional correspondence**

- Western Caucus (Gosar et al) – Forsgren signed final sent 9/16/18
- Lamar Smith – nearly identical Forsgren signed final sent 10/18/18
- DeFazio and Carper – in process

June 2018 memo on 404c regulation revisions

#### **External meeting**

- 11/14/18 Forsgren, PLP and other BB stakeholders

**→ Join by Phone**

Conference Line/Code / Ex. 6

**→ Meeting Organizer**

Erik Peterson, USEPA (206) 553-6382 office

## Appointment

---

**To:** Peterson, Erik [Peterson.Erik@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]

**CC:** Chu, Rebecca [Chu.Rebecca@epa.gov]; Thiesing, Mary [Thiesing.Mary@epa.gov]; Detwiler, Susan K. [detwiler.susan@epa.gov]; Thiesing, Mary [Thiesing.Mary@epa.gov]

**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Start:** 12/18/2018 5:00:00 PM

**End:** 12/18/2018 6:00:00 PM

**Recurrence:** (none)

Proposed Agenda – let Erik know if you have suggestions

### **Permit Oversight/ NEPA Review Team**

NEPA Preliminary EIS Comments

Public Notice

PLP's draft Compensatory Mitigation Plan

### **404(c) Team**

Hladick and Forsgren 12/12 Briefing

Bristol Bay NEPA and 404 Leadership Update for January 2019

CMS Pebble Limited Partnership

FOIA

Request for Correction or Withdrawal

### **→ Join by Phone**

Conference Line/Code / Ex. 6

### **→ Meeting Organizer**

Erik Peterson, USEPA (206) 553-6382 office

## Appointment

---

**From:** Vaughan, Molly [Vaughan.Molly@epa.gov]  
**Sent:** 6/7/2018 12:02:20 AM  
**To:** Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Thiesing, Mary [Thiesing.Mary@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]

**Subject:** Pebble wetlands coordination conversation

**Location:** **Conference Line/Code / Ex. 6**

**Start:** 6/12/2018 7:00:00 PM

**End:** 6/12/2018 7:30:00 PM

**Show Time As:** Busy

**Conference Line/Code / Ex. 6**

## Appointment

---

**From:** McGrath, Patricia [mcgrath.patricia@epa.gov]  
**Sent:** 5/18/2018 8:21:33 PM  
**To:** McGrath, Patricia [mcgrath.patricia@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]  
**Subject:** Pebble check-in  
**Location:** AOO  
**Start:** 6/5/2018 10:00:00 PM  
**End:** 6/6/2018  
**Show Time As:** Busy

Molly and Mark –

Reserving this time to talk before the Pebble cooperating agency meeting on 6/6. I should be in the AOO office.

## Appointment

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**From:** McGrath, Patricia [mcgrath.patricia@epa.gov]  
**Sent:** 5/18/2018 7:28:53 PM  
**To:** McGrath, Patricia [mcgrath.patricia@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; LaCroix, Matthew [LaCroix.Matthew@epa.gov]; Meade, Christopher [Meade.Chris@epa.gov]; Godsey, Cindi [Godsey.Cindi@epa.gov]; Pepple, Karl [Pepple.Karl@epa.gov]; McAlpine, Jerrold [McAlpine.Jay@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Wake, Neverley [wake.neverley@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Eckley, Chris [Eckley.Chris@epa.gov]; Timothy Maley (maley.timothy@epa.gov) [maley.timothy@epa.gov]  
**CC:** Douglas, Mark [douglas.mark@epa.gov]; Schofield, Kate [Schofield.Kate@epa.gov]; Thiesing, Mary [Thiesing.Mary@epa.gov]

**Subject:** FW: Pebble permit oversight/NEPA team

**Attachments:** Pebble permit oversight/NEPA team; Pebble permit oversight/NEPA team; Pebble permit oversight/NEPA team; Pebble permit oversight/NEPA team

**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Start:** 2/22/2018 9:00:00 PM

**End:** 2/22/2018 10:00:00 PM

**Show Time As:** Tentative

**Recurrence:** Monthly  
the fourth Thursday of every 1 month(s) from 1:00 PM to 2:00 PM

-----Original Appointment-----

**From:** McGrath, Patricia

**Sent:** Thursday, February 15, 2018 10:54 AM

**To:** McGrath, Patricia; Molly Vaughan ([Vaughan.Molly@epa.gov](mailto:Vaughan.Molly@epa.gov)); Matthew LaCroix ([LaCroix.Matthew@epa.gov](mailto:LaCroix.Matthew@epa.gov)); Christopher Meade ([Meade.Chris@epa.gov](mailto:Meade.Chris@epa.gov)); Cindi Godsey ([Godsey.Cindi@epa.gov](mailto:Godsey.Cindi@epa.gov)); Karl Pepple ([Pepple.Karl@epa.gov](mailto:Pepple.Karl@epa.gov)); Jay McAlpine ([McAlpine.Jay@epa.gov](mailto:McAlpine.Jay@epa.gov)); Ashley Palomaki ([Palomaki.Ashley@epa.gov](mailto:Palomaki.Ashley@epa.gov)); Neverley Shoemake ([shoemake.neverley@epa.gov](mailto:shoemake.neverley@epa.gov)); Palmer Hough ([Hough.Palmer@epa.gov](mailto:Hough.Palmer@epa.gov)); Timothy Maley ([maley.timothy@epa.gov](mailto:maley.timothy@epa.gov)); Chris Eckley ([Eckley.Chris@epa.gov](mailto:Eckley.Chris@epa.gov))

**Cc:** Douglas, Mark

**Subject:** Pebble permit oversight/NEPA team

**When:** Occurs the fourth Thursday of every 1 month(s) effective 2/22/2018 until 11/22/2018 from 1:00 PM to 2:00 PM (UTC-08:00) Pacific Time (US & Canada).

**Where:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Conference Line/Code / Ex. 6**

Monthly Pebble permit oversight/NEPA team meeting  
Agenda to be sent out before each meeting

## Appointment

---

**To:** McGrath, Patricia [mcgrath.patricia@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; LaCroix, Matthew [LaCroix.Matthew@epa.gov]; Meade, Christopher [Meade.Chris@epa.gov]; Godsey, Cindi [Godsey.Cindi@epa.gov]; Pepple, Karl [Pepple.Karl@epa.gov]; McAlpine, Jerrold [McAlpine.Jay@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Wake, Neverley [wake.neverley@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Maley, Timothy [maley.timothy@epa.gov]; Eckley, Chris [Eckley.Chris@epa.gov]  
**CC:** Douglas, Mark [douglas.mark@epa.gov]; Schofield, Kate [Schofield.Kate@epa.gov]; Thiesing, Mary [Thiesing.Mary@epa.gov]

**Subject:** Pebble permit oversight/NEPA team

**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Start:** 5/24/2018 8:00:00 PM

**End:** 5/24/2018 9:00:00 PM

**Show Time As:** Busy

**Recurrence:** (none)

**Conference Line/Code / Ex. 6**

Monthly Pebble permit oversight/NEPA team meeting

Agenda to be sent out before each meeting

Agenda:

Welcome Mark Douglas to the team

Status of scoping letter

Possible changes to project description

Next steps



## Appointment

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**To:** McGrath, Patricia [mcgrath.patricia@epa.gov]; Wake, Neverley [wake.neverley@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; LaCroix, Matthew [LaCroix.Matthew@epa.gov]; Meade, Christopher [Meade.Chris@epa.gov]; Godsey, Cindi [Godsey.Cindi@epa.gov]; Pepple, Karl [Pepple.Karl@epa.gov]; McAlpine, Jerrold [McAlpine.Jay@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Eckley, Chris [Eckley.Chris@epa.gov]; Timothy Maley (maley.timothy@epa.gov) [maley.timothy@epa.gov]

**CC:** Douglas, Mark [douglas.mark@epa.gov]; Schofield, Kate [Schofield.Kate@epa.gov]; Thiesing, Mary [Thiesing.Mary@epa.gov]

**Subject:** Pebble permit oversight/NEPA team

**Location:** R10Sea-Room-14WallaWalla/R10-Rooms-Service-Center

**Start:** 8/23/2018 8:00:00 PM

**End:** 8/23/2018 9:00:00 PM

**Show Time As:** Busy

**Recurrence:** (none)

### Updated meeting room location – 14 Walla Walla

#### Agenda:

- 7/31 project site visit
- Status of review of EIS sections
- Summary of 8/22 cooperating agency meeting (alternatives discussion)
- Next steps and schedule

**Conference Line/Code / Ex. 6**

Monthly Pebble permit oversight/NEPA team meeting

Agenda to be sent out before each meeting

## Appointment

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**To:** Meade, Christopher [Meade.Chris@epa.gov]; LaCroix, Matthew [LaCroix.Matthew@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Godsey, Cindi [Godsey.Cindi@epa.gov]; Pepple, Karl [Pepple.Karl@epa.gov]; McAlpine, Jerrold [McAlpine.Jay@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Eckley, Chris [Eckley.Chris@epa.gov]; Wake, Neverley [wake.neverley@epa.gov]; Butler, Barbara [Butler.Barbara@epa.gov]; Timothy Maley [maley.timothy@epa.gov] [maley.timothy@epa.gov]

**CC:** Douglas, Mark [douglas.mark@epa.gov]; Schofield, Kate [Schofield.Kate@epa.gov]; Thiesing, Mary [Thiesing.Mary@epa.gov]

**Subject:** Pebble permit oversight/NEPA team

**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Start:** 9/27/2018 8:00:00 PM

**End:** 9/27/2018 9:00:00 PM

**Show Time As:** Busy

**Recurrence:** (none)

Hi all- Here is the agenda for our meeting tomorrow. Feel free to suggest additional topics

### AGENDA

- Litigation hold
- NEPA documents under review
  - o Alternatives
- Schedule for upcoming document reviews
- Additional topics

**Conference Line/Code / Ex. 6**

Monthly Pebble permit oversight/NEPA team meeting  
Agenda to be sent out before each meeting

## Appointment

---

**To:** McGrath, Patricia [mcgrath.patricia@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; LaCroix, Matthew [LaCroix.Matthew@epa.gov]; Meade, Christopher [Meade.Chris@epa.gov]; Godsey, Cindi [Godsey.Cindi@epa.gov]; Pepple, Karl [Pepple.Karl@epa.gov]; McAlpine, Jerrold [McAlpine.Jay@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Wake, Neverley [wake.neverley@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Maley, Timothy [maley.timothy@epa.gov]; Eckley, Chris [Eckley.Chris@epa.gov]  
**CC:** Douglas, Mark [douglas.mark@epa.gov]; Schofield, Kate [Schofield.Kate@epa.gov]; Thiesing, Mary [Thiesing.Mary@epa.gov]

**Subject:** Pebble permit oversight/NEPA team

**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Start:** 7/26/2018 8:00:00 PM

**End:** 7/26/2018 9:00:00 PM

**Show Time As:** Busy

**Recurrence:** (none)

**Conference Line/Code / Ex. 6**

Monthly Pebble permit oversight/NEPA team meeting

Agenda below, please feel free to suggest additional agenda topics

Agenda:

- Review of preliminary EIS sections – Molly
- Field verification site visit – Mark
- Upcoming agency meetings – Patty
- Schedule - Patty

## Appointment

---

**From:** R10-OERA Calendar [R10-OERA\_Calendar@epa.gov]  
**Sent:** 5/18/2018 7:28:11 PM  
**To:** R10-OERA Calendar [R10-OERA\_Calendar@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; LaCroix, Matthew [LaCroix.Matthew@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Combes, Marcia [Combes.Marcia@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]; Szerlog, Michael [Szerlog.Michael@epa.gov]  
**CC:** Stern, Allyn [Stern.Allyn@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]

**Subject:** FW: Bristol Bay Check-in

**Attachments:** Untitled Attachment; Bristol Bay Check-in

**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

Conference Line/Code / Ex. 6

**Start:** 2/14/2018 5:00:00 PM

**End:** 2/14/2018 6:00:00 PM

**Show Time As:** Tentative

**Recurrence:** Weekly  
every 2 week(s) on Wednesday from 9:00 AM to 10:00 AM

Mark,

Hopefully you will receive the entire series.

-----Original Appointment-----

**From:** R10-OERA Calendar

**Sent:** Monday, February 5, 2018 9:13 AM

**To:** R10-OERA Calendar; Allnutt, David; Anderson-Carnahan, Linda; McGrath, Patricia; Palomaki, Ashley; Steiner-Riley, Cara; Lindsay, Andrea; Skadowski, Suzanne; Nogi, Jill; LaCroix, Matthew; Vaughan, Molly; Hough, Palmer; Peterson, Erik; Nalven, Heidi; Fordham, Tami; Combes, Marcia; Mendelman, Krista; Szerlog, Michael

**Cc:** Stern, Allyn

**Subject:** Bristol Bay Check-in

**When:** Occurs every 2 week(s) on Wednesday effective 2/14/2018 until 6/8/2018 from 9:00 AM to 10:00 AM (UTC-08:00) Pacific Time (US & Canada).

**Where:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

Conference Line/Code / Ex. 6

Conference Line/Code / Ex. 6

## Appointment

---

**Start:** 5/23/2018 4:00:00 PM  
**End:** 5/23/2018 5:00:00 PM  
**Show Time As:** Busy

**Recurrence:** (none)

Mark,

Hopefully you will receive the entire series.

-----Original Appointment-----

**From:** R10-OERA Calendar

**Sent:** Monday, February 5, 2018 9:13 AM

**To:** R10-OERA Calendar; Allnutt, David; Anderson-Carnahan, Linda; McGrath, Patricia; Palomaki, Ashley; Steiner-Riley, Cara; Lindsay, Andrea; Skadowski, Suzanne; Nogi, Jill; LaCroix, Matthew; Vaughan, Molly; Hough, Palmer; Peterson, Erik; Nalven, Heidi; Fordham, Tami; Combes, Marcia; Mendelman, Krista; Szerlog, Michael

**Cc:** Stern, Allyn

**Subject:** Bristol Bay Check-in

**When:** Occurs every 2 week(s) on Wednesday effective 2/14/2018 until 6/8/2018 from 9:00 AM to 10:00 AM (UTC-08:00) Pacific Time (US & Canada).

**Where:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center;

**Conference Line/Code / Ex. 6**

**Conference Line/Code / Ex. 6**

## Appointment

---

**To:** Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; LaCroix, Matthew [LaCroix.Matthew@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; LaCroix, Matthew [LaCroix.Matthew@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; R10-OERA Calendar [R10-OERA\_Calendar@epa.gov]; Allnutt, David [Allnutt.David@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]; LaCroix, Matthew [LaCroix.Matthew@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Combes, Marcia [Combes.Marcia@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]; Lindsay, Andrea [Lindsay.Andrea@epa.gov]; Skadowski, Suzanne [Skadowski.Suzanne@epa.gov]; Nogi, Jill [nogi.jill@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Nalven, Heidi [Nalven.Heidi@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; Szerlog, Michael [Szerlog.Michael@epa.gov]

**CC:** Stern, Allyn [Stern.Allyn@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Stern, Allyn [Stern.Allyn@epa.gov]

**Subject:** Bristol Bay Check-in

**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center;

**Conference Line/Code / Ex. 6**

**Start:** 6/12/2018 4:00:00 PM

**End:** 6/12/2018 5:00:00 PM

**Show Time As:** Busy

**Recurrence:** (none)

**Conference Line/Code / Ex. 6**

## Appointment

---

**From:** Mendelman, Krista [Mendelman.Krista@epa.gov]  
**Sent:** 6/26/2018 3:00:47 PM  
**To:** Douglas, Mark [douglas.mark@epa.gov]

**Subject:** FW: Bristol Bay Check-in

**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center;

**Conference Line/Code / Ex. 6**

**Start:** 7/3/2018 4:00:00 PM

**End:** 7/3/2018 5:00:00 PM

**Show Time As:** Tentative

**Recurrence:** Weekly  
every 2 week(s) on Wednesday from 9:00 AM to 10:00 AM

-----Original Appointment-----

**From:** R10-OERA Calendar

**Sent:** Wednesday, May 16, 2018 10:11 AM

**To:** R10-OERA Calendar; Allnutt, David; Anderson-Carnahan, Linda; McGrath, Patricia; Palomaki, Ashley; Szerlog, Michael; Steiner-Riley, Cara; Lindsay, Andrea; Skadowski, Suzanne; Nogi, Jill; LaCroix, Matthew; Vaughan, Molly; Hough, Palmer; Peterson, Erik; Nalven, Heidi; Fordham, Tami; Combes, Marcia; Mendelman, Krista; Stern, Allyn

**Subject:** Bristol Bay Check-in

**When:** Tuesday, July 03, 2018 9:00 AM-10:00 AM (UTC-08:00) Pacific Time (US & Canada).

**Where:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center;

**Conference Line/Code / Ex. 6**

## Appointment

---

**From:** Mendelman, Krista [Mendelman.Krista@epa.gov]  
**Sent:** 6/26/2018 3:00:44 PM  
**To:** Douglas, Mark [douglas.mark@epa.gov]

**Subject:** FW: Bristol Bay Check-in

**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center;

**Conference Line/Code / Ex. 6**

**Start:** 6/20/2018 4:00:00 PM

**End:** 6/20/2018 5:00:00 PM

**Show Time As:** Tentative

**Recurrence:** Weekly  
every 2 week(s) on Wednesday from 9:00 AM to 10:00 AM

Hi Mark, I didn't see you on the recipient list. Krista

-----Original Appointment-----

**From:** R10-OERA Calendar

**Sent:** Wednesday, May 16, 2018 10:11 AM

**To:** R10-OERA Calendar; Allnutt, David; Anderson-Carnahan, Linda; McGrath, Patricia; Palomaki, Ashley; Szerlog, Michael; Steiner-Riley, Cara; Lindsay, Andrea; Skadowski, Suzanne; Nogi, Jill; LaCroix, Matthew; Vaughan, Molly; Hough, Palmer; Peterson, Erik; Nalven, Heidi; Fordham, Tami; Combes, Marcia; Mendelman, Krista; Stern, Allyn

**Subject:** Bristol Bay Check-in

**When:** Occurs every 2 week(s) on Wednesday effective 6/20/2018 until 7/18/2018 from 9:00 AM to 10:00 AM (UTC-08:00) Pacific Time (US & Canada).

**Where:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center;

**Conference Line/Code / Ex. 6**



Message

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**From:** Eckley, Chris [Eckley.Chris@epa.gov]  
**Sent:** 6/22/2018 9:16:02 PM  
**To:** Vaughan, Molly [Vaughan.Molly@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Godsey, Cindi [Godsey.Cindi@epa.gov]; Pepple, Karl [Pepple.Karl@epa.gov]; McAlpine, Jerrold [McAlpine.Jay@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Wake, Neverley [wake.neverley@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Schofield, Kate [Schofield.Kate@epa.gov]; Maley, Timothy [maley.timothy@epa.gov]; Barton, Justine [Barton.Justine@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Muche, Muluken [Muche.Muluken@epa.gov]  
**CC:** Brown, DonaldM [Brown.DonaldM@epa.gov]  
**Subject:** RE: REVIEW REQUEST and additional documents loaded to Sharepoint  
**Attachments:** CE Comments on PreDraft\_Sec3.18\_WaterQuality.docx

Hi Molly,  
Attached are my comments on Section 3.18.  
Let me know if you have questions or need follow up information.  
--Chris

---

**From:** Vaughan, Molly  
**Sent:** Thursday, June 7, 2018 12:13 PM  
**To:** McGrath, Patricia <mcgrath.patricia@epa.gov>; Godsey, Cindi <Godsey.Cindi@epa.gov>; Pepple, Karl <Pepple.Karl@epa.gov>; McAlpine, Jerrold <McAlpine.Jay@epa.gov>; Palomaki, Ashley <Palomaki.Ashley@epa.gov>; Wake, Neverley <wake.neverley@epa.gov>; Hough, Palmer <Hough.Palmer@epa.gov>; Schofield, Kate <Schofield.Kate@epa.gov>; Maley, Timothy <maley.timothy@epa.gov>; Eckley, Chris <Eckley.Chris@epa.gov>; Barton, Justine <Barton.Justine@epa.gov>; Douglas, Mark <douglas.mark@epa.gov>; Muche, Muluken <Muche.Muluken@epa.gov>  
**Subject:** REVIEW REQUEST and additional documents loaded to Sharepoint

Hello Team,  
The Corps distributed some additional information to cooperating agencies related to yesterday's Cooperating Agency meeting here in Anchorage, and I have added these materials to the Sharepoint site, in the "Materials for 6-6-18 Cooperating Agency Meeting" folder. Most of the information is for awareness only, but our review has been requested on two items:

- 1) the Preliminary Scoping Report

Internal Website / Ex. 6

- 2) selected sections of Pre-Draft Chapter 3

Internal Website / Ex. 6

Your review is being requested on specific materials (listed below), but feel free to also review the remainder of the materials if you wish.

- Preliminary Scoping Report: **Molly/Patty** – comments due to Molly **June 20**  
This document addresses scoping comments received to date, but will be updated following the close of the public scoping period.
- Pre-Draft Chapter 3 Sections – comments due to Molly **June 25** (specific section assignments below)  
These documents are first drafts of each resource section Affected Environment, and will also be updated following the close of public scoping and based on cooperating agency input. It is not clear whether cooperators will have an opportunity to review a second iteration prior to publication of the Draft EIS, so a thorough review at this stage is critical.

The Corps has requested that our review focus on what is missing or any inaccuracies (don't worry about formatting, grammar, etc.). Where we identify something missing/innacurate, we are asked to be very specific in our recommendation. If you identify missing information in your review, first check the RFIs and Responses to Date

**Internal Website / Ex. 6**

If there is a RFI/response that addresses your concern, then please note that in your comment. If not, then please include in your comment: (1) the information gap, (2) a reference where additional information can be found, and (3) what from that reference should be added, with as much specificity as possible – suggested text would be helpful.

Please identify the sub-section and page number for each of your comments.

Here are specific assignments for the review request. Most sections include a word document as well as some associated figures in pdf form.

- 3.1 Intro – **Molly**
- 3.5 Recreation – **Mark/Palmer/Molly**
- 3.11 Aesthetics – **Mark/Palmer/Molly**
- 3.14 Soils – **Mark/Palmer**
- 3.16 Surface Water Hydrology (note, we received figures but not text, and are following up) – **Tim/Mark/Palmer/Muluken**
- 3.17 Groundwater Hydrology – **Tim/Mark/Palmer/Muluken**
- 3.18 Water and Sediment Quality – **Cindi/Tim/Chris**
- 3.22 Wetlands/ Special Aquatic Sites – **Mark/Palmer**
- 3.26 Vegetation (note, we received figures but not text, and are following up) – **Mark/Palmer**

Please let me know if you have any questions. Thank you for your assistance with this review.

Regards,  
Molly

~~~~~  
Molly Vaughan  
U.S. Environmental Protection Agency Region 10  
Alaska Operations Office  
222 W. 7<sup>th</sup> Avenue #19  
Anchorage, AK 99513-7588

907-271-1215  
[vaughan.molly@epa.gov](mailto:vaughan.molly@epa.gov)  
~~~~~

---

**From:** Vaughan, Molly

**Sent:** Thursday, May 24, 2018 2:47 PM

**To:** McGrath, Patricia <[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)>; Meade, Christopher <[Meade.Chris@epa.gov](mailto:Meade.Chris@epa.gov)>; Godsey, Cindi <[Godsey.Cindi@epa.gov](mailto:Godsey.Cindi@epa.gov)>; Pepple, Karl <[Pepple.Karl@epa.gov](mailto:Pepple.Karl@epa.gov)>; McAlpine, Jerrold <[McAlpine.Jay@epa.gov](mailto:McAlpine.Jay@epa.gov)>; Palomaki, Ashley <[Palomaki.Ashley@epa.gov](mailto:Palomaki.Ashley@epa.gov)>; Wake, Neverley <[wake.neverley@epa.gov](mailto:wake.neverley@epa.gov)>; Hough, Palmer <[Hough.Palmer@epa.gov](mailto:Hough.Palmer@epa.gov)>; Schofield, Kate <[Schofield.Kate@epa.gov](mailto:Schofield.Kate@epa.gov)>; Maley, Timothy <[maley.timothy@epa.gov](mailto:maley.timothy@epa.gov)>; Eckley, Chris <[Eckley.Chris@epa.gov](mailto:Eckley.Chris@epa.gov)>; Barton, Justine <[Barton.Justine@epa.gov](mailto:Barton.Justine@epa.gov)>; Douglas, Mark

<douglas.mark@epa.gov>

**Subject:** RE: Pebble NEPA/permitting team - documents for awareness review

Hi All,

All of the materials received from the Corps to date are now on the Sharepoint site, in a folder labeled "Materials for 6-6-18 Cooperating Agency Meeting," for your perusal if interested.

**Internal Website / Ex. 6**

Regards,  
Molly

---

**From:** McGrath, Patricia

**Sent:** Friday, May 18, 2018 11:29 AM

**To:** Vaughan, Molly <Vaughan.Molly@epa.gov>; LaCroix, Matthew <LaCroix.Matthew@epa.gov>; Meade, Christopher <Meade.Chris@epa.gov>; Godsey, Cindi <Godsey.Cindi@epa.gov>; Pepple, Karl <Pepple.Karl@epa.gov>; McAlpine, Jerrold <McAlpine.Jay@epa.gov>; Palomaki, Ashley <Palomaki.Ashley@epa.gov>; Wake, Neverley <wake.neverley@epa.gov>; Hough, Palmer <Hough.Palmer@epa.gov>; Schofield, Kate <Schofield.Kate@epa.gov>; Maley, Timothy <maley.timothy@epa.gov>; Eckley, Chris <Eckley.Chris@epa.gov>; Barton, Justine <Barton.Justine@epa.gov>; Douglas, Mark <douglas.mark@epa.gov>

**Subject:** Pebble NEPA/permitting team - documents for awareness review

Pebble NEPA/permitting team –

The Corps has started sending us, and other cooperating agencies, information generated by PLP and the third-party EIS contractor (AECOM). This information includes AECOM's requests (to PLP) for additional information (RFAs) and PLP's responses. The Corps has begun adding these RFAs to the public EIS website. Molly and I will add this information to our SharePoint site as well.

The Corps has submitted this information to us and requested an awareness review, but is not requesting written comments.

For now, I want to bring your attention to two documents, attached:

1 – PLP Updates to the Proposed Project - PLP has made some updates to the project description. Please review this document so that you are aware of the changes. Some of these changes could impact parts of our scoping letter (e.g., use of lightering and elimination of dredging).

2 – PLP Technical Note on Project Options and Screening Criteria – This document summarizes screening criteria and options used by PLP to develop its current project description. I expect the Corps will consider this information during alternatives development. Please review this document for awareness.

We will discuss these documents during our next team meeting on May 24, and I can provide more context. In the meantime, please let me know if you have questions.

Thanks-  
Patty

**Patty McGrath | Mining Advisor**

U.S. Environmental Protection Agency, Region 10

1200 Sixth Avenue, Seattle, WA 98101

M/S: RAD-202

Office: (206) 553-6113

Cell: (206) 743-7068

[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)



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# United States Army Corps of Engineers

## Meeting Agenda

### Cooperating Agencies

Department of the Army Permit Application POA-2017-271, Pebble Limited Partnership

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June 6, 2018 0800-1530

Join WebEx meeting

**Conference Line/Code / Ex. 6**

Join from a video system or application

**Conference Line/Code / Ex. 6**

Join by phone

**Conference Line/Code / Ex. 6**

**Meeting Objectives:** Identify technical working groups and points of contacts, Protocols for technical team interactions and expectations.

|           |  |
|-----------|--|
| 0800-0900 | Welcome and Introductions<br>Introductions of new CAs and revisit previous CAs                                       |
| 0900-1000 | Introduction to Technical leads and back grounds   |
| 1000-1030 | Break  |
| 1030-1200 | Review of roles and responsibilities;<br>Cooperating Agency Coordination Plan/Protocols and expectations             |
| 1200-1300 | Lunch  |
| 1300-1400 | Proposed Schedule for resource planning<br>Chapter 3 – send for 30 day review<br>Scoping report; comments by 29 June |
| 1400-1415 | Break  |
| 1415-1530 | Other*, wrap up, follow up task identification, closing comments   |

\*other may be discussion on project changes to date

Message

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**From:** McGrath, Patricia [mcgrath.patricia@epa.gov]  
**Sent:** 7/13/2018 7:25:11 PM  
**To:** Douglas, Mark [douglas.mark@epa.gov]  
**Subject:** FW: Pebble EIS: Cooperating Agency Timelines

-----Original Message-----

From: POA Special Projects [mailto:poaspecialprojects@usace.army.mil]  
Sent: Thursday, July 12, 2018 3:16 PM  
To: bob1@jadenorth.com; Brooke Merrell <brooke\_merrell@nps.gov>; Curyung Tribal <courtenay@curyungtribe.com>; 'cvaughn@achp.gov' <cvaughn@achp.gov>; Daugherty, Linda (PHMSA) <linda.daugherty@dot.gov>; David Seris (David.M.Seris@uscg.mil) <David.M.Seris@uscg.mil>; Douglass Cooper <douglass\_cooper@fws.gov>; Hassell, David (PHMSA) <david.hassell@dot.gov>; John Eddins <jeddins@achp.gov>; Kevin Pendegast <kevin.pendegast@bsee.gov>; 'mary\_colligan@fws.gov' <mary\_colligan@fws.gov>; McCafferty, Katherine A CIV USARMY CEPOA (US) <Katherine.A.McCafferty2@usace.army.mil>; McCall, John <john.mccall@bsee.gov>; McGrath, Patricia <mcgrath.patricia@epa.gov>; Vaughan, Molly <Vaughan.Molly@epa.gov>; Moselle, Kyle W (DNR) <kyle.moselle@alaska.gov>; manager@lakeandpen.com; POA Special Projects <poaspecialprojects@usace.army.mil>; nondaltontribe@yahoo.com; Wesley Furlong <wfurlong@narf.org>  
Subject: FW: Pebble EIS: Cooperating Agency Timelines

All,  
Here is a quick look at the anticipated dates for CA engagements/deliverables/meetings. I will be sending draft CH 4 in a few minutes

Shane

Scoping Report

Distributed July 25, 2018

List of Potential Alternatives

Distributed August 14 (may be sooner, but plan on short turn)

Meeting with CAs on Alternatives

August 22

Pre-Draft Chapter 4

Distributed July 12

CAs assist with Chapter 4 Impact Analysis

October 1 to 30

Message

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**From:** Mendelman, Krista [Mendelman.Krista@epa.gov]  
**Sent:** 6/18/2018 9:25:18 PM  
**To:** Douglas, Mark [douglas.mark@epa.gov]  
**CC:** Smith, Marla J. [Smith.MarlaJ@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]  
**Subject:** RE: Pebble Request form  
**Attachments:** 2018\_06\_18\_MDSiteReqForm.pdf

Here you go. Sorry for the delay.

Krista

---

Krista Mendelman  
US EPA Region 10 MS:OWW-193  
1200 6<sup>th</sup> Ave. Suite 900  
Seattle WA 98101  
206-553-1571

---

**From:** Douglas, Mark  
**Sent:** Monday, June 18, 2018 1:56 PM  
**To:** Mendelman, Krista <Mendelman.Krista@epa.gov>  
**Cc:** Smith, Marla J. <Smith.MarlaJ@epa.gov>; McGrath, Patricia <mcgrath.patricia@epa.gov>  
**Subject:** FW: Pebble Request form

Krista,

Can you sign and send back attached document for the trip to Iliamna?

Thanks,

Mark Douglas  
Aquatic Resources Unit  
Office of Environmental Review & Assessment

U.S. Environmental Protection Agency  
Alaska Operations Office  
222 W. 7th Avenue, Box 19  
Anchorage, AK 99513-7588  
Phone (907) 271-1217

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**From:** Douglas, Mark  
**Sent:** Thursday, June 14, 2018 4:30 PM  
**To:** Mendelman, Krista <Mendelman.Krista@epa.gov>; Thiesing, Mary <Thiesing.Mary@epa.gov>  
**Cc:** Smith, Marla J. <Smith.MarlaJ@epa.gov>; McGrath, Patricia <mcgrath.patricia@epa.gov>  
**Subject:** Pebble Request form

Krista or Mary Anne,

Attached is the form Pebble sent for the site visit in July. Please sign it and send it back **Personal** but if you are able to sign it on Friday please call my cell **Personal Phone / Ex. 6** to let me know it's ready and I'll log in and send it on to Pebble.

Thanks!

Mark Douglas  
Aquatic Resources Unit  
Office of Environmental Review & Assessment

U.S. Environmental Protection Agency  
Alaska Operations Office  
222 W. 7th Avenue, Box 19  
Anchorage, AK 99513-7588  
Phone (907) 271-1217







| ADDITIONAL REQUIREMENTS  |  |  |
|--|--|--|
| <b>Private Land Access:</b>  |  | <b># People:</b>                           |
| <input type="checkbox"/> APC   |  |  |
| <input type="checkbox"/> CIRI  |  |  |
| <input type="checkbox"/> INL   |  |  |
| <input type="checkbox"/> PBC   |  |  |
| <input type="checkbox"/> KIJIK   |  |  |
| <input type="checkbox"/> Other (describe):   |  |  |
| <b>Labor:</b>  |  | <b># People:</b>                           |
| <input checked="" type="checkbox"/> Bear Guard   |  | 1*   |
| <input type="checkbox"/> Observer  |  |  |
| <input type="checkbox"/> Laborer   |  |  |
| <input type="checkbox"/> Local Knowledge Specialist  |  |  |
| <input type="checkbox"/> Other (describe):   |  |  |
| <b>Helicopter:</b>   |  | <b># People:</b>                           |
| <input type="checkbox"/>   |  |  |
| <input checked="" type="checkbox"/> ASTAR  |  | 1*   |
| <input type="checkbox"/> 500   |  |  |
| <input type="checkbox"/> R44   |  |  |
| <b>Other:</b>  |  | <b>Quantity:</b>                           |
| <input type="checkbox"/> Boat (describe):  |  |  |
| <input type="checkbox"/> Backhoe   |  |  |
| <input type="checkbox"/> Vehicle   |  |  |
| <input type="checkbox"/> Bicycle   |  |  |
| <b>Comments:</b>   |  |  |
| Please arrange for individual rooms for EPA staff.   |  |  |
| *Helicopter and bear guard needs should be coordinated with USACE/HDR request for the same days. |  |  |
| <b>TO BE COMPLETED BY THE REQUESTING TRAVELER</b>  |  |  |
| Date: 6/14/18  | Signature:                                   |  |
| <b>TO BE COMPLETED BY AUTHORIZING SUPERVISOR</b>   |  |  |
| Date: 6/18/18  | Signature:                                   |  |
|  | Printed Name: Krista L. Mendelman            |  |
| <b>TO BE COMPLETED BY PERSON COMPLETING TRAVEL ARRANGEMENTS</b>                                  |  |  |
| Date Received:   | Date Completed:                              |  |
| Signature of person completing travel arrangements:  |  |  |
| <input type="checkbox"/> Emailed to PLP Invoicing  | <input type="checkbox"/> Emailed to traveler | <input type="checkbox"/> Faxed to traveler |

PLEASE ATTACH MAPS AS THEY RELATE TO THE SCOPE OF WORK.

| Page | Section | Existing text (if applicable) | Recommendation |
|------|---------|-------------------------------|----------------|
|      |         |                               |                |
|      |         |                               |                |
|      |         |                               |                |
|      |         |                               |                |
|      |         |                               |                |
|      |         |                               |                |
|      |         |                               |                |

Message

---

**From:** Smith, Marla J. [Smith.MarlaJ@epa.gov]  
**Sent:** 6/13/2018 3:26:51 PM  
**To:** Douglas, Mark [douglas.mark@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]  
**CC:** Curtis, Jennifer [Curtis.Jennifer@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]  
**Subject:** RE: July 9-11 Pebble site visit

**Importance:** High

ARE will cover the cost of this travel for Mark.

---

**From:** Douglas, Mark  
**Sent:** Tuesday, June 12, 2018 3:31 PM  
**To:** Mendelman, Krista <Mendelman.Krista@epa.gov>  
**Cc:** Smith, Marla J. <Smith.MarlaJ@epa.gov>; Curtis, Jennifer <Curtis.Jennifer@epa.gov>; McGrath, Patricia <mcgrath.patricia@epa.gov>; Fordham, Tami <Fordham.Tami@epa.gov>  
**Subject:** July 9-11 Pebble site visit

Krista and all,

I am putting in a TA for the proposed site visit as we wait for the ethics response.

There are several unknowns including available flights to and from and cost of helicopter.

Cost estimates are as follows:

High estimate for flights between Anchorage and Iliamna: \$500

High estimate for seat on helicopter: \$2,500

Lodging \$150 per night: \$300 total

MI&E: \$88 per total: \$220

Total high estimate: \$3,520.

Thanks to Patty I'm anticipating a call from the company with additional details today or tomorrow.

Mark Douglas  
Aquatic Resources Unit  
Office of Environmental Review & Assessment

U.S. Environmental Protection Agency  
Alaska Operations Office  
222 W. 7th Avenue, Box 19  
Anchorage, AK 99513-7588  
Phone (907) 271-1217

Message

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**From:** Curtis, Jennifer [Curtis.Jennifer@epa.gov]  
**Sent:** 6/12/2018 5:31:25 PM  
**To:** Douglas, Mark [douglas.mark@epa.gov]  
**CC:** McGrath, Patricia [mcgrath.patricia@epa.gov]; Smith, Marla J. [Smith.MarlaJ@epa.gov]  
**Subject:** RE: remote site travel

Okay, thanks!

---

**From:** Douglas, Mark  
**Sent:** Tuesday, June 12, 2018 8:10 AM  
**To:** Curtis, Jennifer <Curtis.Jennifer@epa.gov>  
**Cc:** McGrath, Patricia <mcgrath.patricia@epa.gov>; Smith, Marla J. <Smith.MarlaJ@epa.gov>  
**Subject:** RE: remote site travel

Jennifer,

I don't recall Gayle or myself developing a justification for helicopter use from the Nanushuk site visit.

Mark Douglas  
Aquatic Resources Unit  
Office of Environmental Review & Assessment

U.S. Environmental Protection Agency  
Alaska Operations Office  
222 W. 7th Avenue, Box 19  
Anchorage, AK 99513-7588  
Phone (907) 271-1217

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**From:** Curtis, Jennifer  
**Sent:** Tuesday, June 12, 2018 8:04 AM  
**To:** Douglas, Mark <douglas.mark@epa.gov>  
**Cc:** McGrath, Patricia <mcgrath.patricia@epa.gov>; Smith, Marla J. <Smith.MarlaJ@epa.gov>  
**Subject:** FW: remote site travel

Hi Mark,

Do you have a justification/write-up for helicopter travel that Patty could look at?

---

**From:** Shaw, Hanh  
**Sent:** Monday, June 11, 2018 11:20 AM  
**To:** Curtis, Jennifer <Curtis.Jennifer@epa.gov>  
**Subject:** RE: remote site travel

I haven't done a justification for helicopter travel since the Chuitna days. You may want to check with Mark Douglas. He and Gayle Martin participated in a Nanushuk site visit using helicopter services provided by Armstrong.

---

**From:** Curtis, Jennifer  
**Sent:** Monday, June 11, 2018 12:13 PM

**To:** Shaw, Hanh <[Shaw.Hanh@epa.gov](mailto:Shaw.Hanh@epa.gov)>

**Subject:** FW: remote site travel

Hi Hanh,

Hope you are doing well!

Do you recall putting together anything for helicopter travel justification, similar to what Patty is referencing below?

---

**From:** McGrath, Patricia

**Sent:** Monday, June 11, 2018 10:04 AM

**To:** Curtis, Jennifer <[Curtis.Jennifer@epa.gov](mailto:Curtis.Jennifer@epa.gov)>; Smith, Marla J. <[Smith.MarlaJ@epa.gov](mailto:Smith.MarlaJ@epa.gov)>; Fordham, Tami <[Fordham.Tami@epa.gov](mailto:Fordham.Tami@epa.gov)>

**Subject:** remote site travel

Hi All-

I am preparing an email to ORC regarding upcoming site travel to Pebble. As has been done in the past, we would be invoiced by Pebble for helicopter time.

I understand that Jennifer (or Hanh?) had developed similar justifications/emails for O&G site travel.

Could you send me an example of this so I don't have to reinvent the wheel and could also point to these other examples?

Thanks-

Patty

**Patty McGrath | Mining Advisor**

U.S. Environmental Protection Agency, Region 10

1200 Sixth Avenue, Seattle, WA 98101

M/S: RAD-202

Office: (206) 553-6113

Cell: (206) 743-7068

[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)

Message

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**From:** Vaughan, Molly [Vaughan.Molly@epa.gov]  
**Sent:** 11/19/2018 7:34:32 PM  
**To:** Douglas, Mark [douglas.mark@epa.gov]  
**Subject:** FW: Pebble Draft Ch 2 comments for review  
**Attachments:** EPA Comments Pebble Pre-DEIS Ch 2 111518draft\_ACP.docx

Hi Mark – please take a look at Ashley’s edits to the first comment in the table, also described in her email below, and let me know how you would like to finalize the comment.

Thanks,  
Molly

---

**From:** Palomaki, Ashley  
**Sent:** Monday, November 19, 2018 8:01 AM  
**To:** McGrath, Patricia <mcgrath.patricia@epa.gov>; Vaughan, Molly <Vaughan.Molly@epa.gov>  
**Subject:** RE: Pebble Draft Ch 2 comments for review

Hi Molly –

Thanks for the opportunity to review. My comments are attached. I have a problem in that I always fix nits if I see them ☺ but you should take it or leave it. I also flagged a couple places for you where you should edit the sentence b/c it isn’t clear.

Attorney Client Privilege/Deliberative Process Privilege / Ex. 5

Ashley

**Ashley Palomaki**  
Assistant Regional Counsel  
U.S. EPA Region 10 Office of Regional Counsel  
1200 Sixth Avenue, Suite 155, ORC-113  
Seattle, WA 98101  
206-553-8582

---

**From:** McGrath, Patricia  
**Sent:** Friday, November 16, 2018 9:25 AM  
**To:** Vaughan, Molly <Vaughan.Molly@epa.gov>; Palomaki, Ashley <Palomaki.Ashley@epa.gov>  
**Subject:** RE: Pebble Draft Ch 2 comments for review

Hi Molly and Ashely –

Deliberative Process / Ex. 5

**Deliberative Process / Ex. 5**

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**From:** Vaughan, Molly  
**Sent:** Thursday, November 15, 2018 3:52 PM  
**To:** Palomaki, Ashley <[Palomaki.Ashley@epa.gov](mailto:Palomaki.Ashley@epa.gov)>  
**Cc:** McGrath, Patricia <[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)>  
**Subject:** Pebble Draft Ch 2 comments for review

Hi Ashley,

I am so sorry for the delay in getting these comments to you for review. If you will no longer be able to complete your review Friday, please let me know. I also apologize that some of the comments (particularly the last couple pages) are still a bit rough. So, please don't feel that you have to edit grammar, punctuation, etc., as I will do another read-through for that before sending this to Jill.

Patty – I've copied you here as well, so you can decide if you would prefer to do your final review of the compiled comments now, or at the same time as Jill's review.

Thank you very much in advance for your review!  
--Molly

---

Molly Vaughan  
U.S. Environmental Protection Agency Region 10  
Alaska Operations Office  
222 W. 7<sup>th</sup> Avenue #19  
Anchorage, AK 99513-7588



907-271-1215

[vaughan.molly@epa.gov](mailto:vaughan.molly@epa.gov)

~~~~~

Message

**From:** McGrath, Patricia [mcgrath.patricia@epa.gov]  
**Sent:** 6/7/2018 9:07:13 PM  
**To:** Smith, Marla J. [Smith.MarlaJ@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Mendelman, Krista [Mendelman.Krista@epa.gov]  
**Subject:** RE: Field Logistics

Marla

**Personal Matters / Ex. 6**

**Deliberative Process / Ex. 5**

Patty

-----Original Message-----

From: Smith, Marla J.  
Sent: Thursday, June 7, 2018 12:18 PM  
To: Douglas, Mark <douglas.mark@epa.gov>; McGrath, Patricia <mcgrath.patricia@epa.gov>; Mendelman, Krista <Mendelman.Krista@epa.gov>  
Subject: RE: Field Logistics  
Importance: High

Hi Mark,

**Deliberative Process / Ex. 5**

Thanks,  
Marla

-----Original Message-----

From: Douglas, Mark  
Sent: Thursday, June 07, 2018 12:12 PM  
To: McGrath, Patricia <mcgrath.patricia@epa.gov>; Smith, Marla J. <Smith.MarlaJ@epa.gov>; Mendelman, Krista <Mendelman.Krista@epa.gov>  
Subject: FW: Field Logistics

The form Pebble wants me to sign and get back.

Mark Douglas  
Aquatic Resources Unit  
Office of Environmental Review & Assessment

U.S. Environmental Protection Agency  
Alaska Operations Office  
222 W. 7th Avenue, Box 19  
Anchorage, AK 99513-7588  
Phone (907) 271-1217

-----Original Message-----

From: Tim Havey [mailto:timhavey@pebblepartnership.com]  
Sent: Thursday, June 07, 2018 12:06 PM  
To: Douglas, Mark <douglas.mark@epa.gov>  
Subject: FW: Field Logistics

Mark:

Please review the attached and send back to me. Basically I need your cell phone number and for you to add any food or dietary requirements. Below is the email I sent to Estrella yesterday with some additional info. Call if you have any questions.

Regards,

Tim Havey  
Director-Environment and Permitting

3201 C Street, Suite 505  
Anchorage, AK 99515  
D: 907.339.2626 C: 907.230.5056

-----Original Message-----

From: Tim Havey

Sent: Wednesday, June 6, 2018 10:20 AM

To: 'Campellone, Estrella F CIV USARMY CEPOA (US)' <Estrella.F.Campellone@usace.army.mil>

Cc: McCoy, Shane M CIV USARMY CEPOA (US) <Shane.M.Mccoy@usace.army.mil>; McCafferty, Katherine A CIV USARMY CEPOA (US) <Katherine.A.McCafferty2@usace.army.mil>

Subject: RE: Field Logistics

Estrella:

I have attached the site services request form that our operations staff need to finalize your arrangements. I went ahead and filled out most. Please review and add your phone number (cell phone preferably) and whether anyone has any food allergies or special needs. You can send the completed form back to me and I will submit it to site. I have requested individual rooms for each of you.

Meals are cafeteria style. For your arrival day, it will be easiest if you can bring your lunch with you. For the remaining days you will make a bag lunch at breakfast to bring with you to the field.

We will provide in-town transportation to/from the airport each day in one of our vehicles. Work days are 12 hours, with 10 in the field and one hour on either end for muster, briefings, etc. Crews normally do not return to base during the work day unless weather limits flight operations. Low clouds and/or high winds are typically the only conditions that will restrict helicopter travel.

No firearms are permitted at any Pebble facility or in helicopters. Trained bear guards will be provided with each crew. Guards are in constant radio contact with site operations. Alcohol is prohibited at any Pebble facility.

Safety training and site orientation will take place as soon as you arrive. That should take about an hour, followed by a 20-minute helicopter safety briefing. We provide basic PPE (safety goggles, high visibility vest, hearing protection). You are welcome to bring your own as long as the operations manager approves. Field gear requirements are what you would normally bring.

Accommodations are 150/person/day. We will invoice you after your trip. Our site staff does not have the ability to accept payments. Helicopter time will likewise be invoiced to you based on the per seat cost and number of flight hours logged. Cost may vary depending on which helicopter is available.

Please let me know if you have any other questions.

Thanks,  
Tim

-----Original Message-----

From: Campellone, Estrella F CIV USARMY CEPOA (US) [mailto:Estrella.F.Campellone@usace.army.mil]

Sent: Wednesday, June 6, 2018 7:31 AM

To: Tim Havey <timhavey@pebblepartnership.com>

Cc: McCoy, Shane M CIV USARMY CEPOA (US) <Shane.M.Mccoy@usace.army.mil>; McCafferty, Katherine A CIV USARMY CEPOA (US) <Katherine.A.McCafferty2@usace.army.mil>

Subject: Field Logistics

Hi Tim,

I think I left a voice mail and I am wondering if you received it.

In any case, please let me review with you our itinerary:

Arrival time @ Iliamna: July 9 (Monday) at 0900.

Departure time: July 11 @ 4:30 p.m.

Corps will disburse your company directly for hotel/helicopter costs.

Hotel:

Check in July 9th

Check out July 11th

Meals:

July 9th (lunch brown bag - Diner)

July 10th (all meals)

July 11th (breakfast & lunch).

Helicopter: as per time-usage logs (coordination field work with HDR at this point).

Truck Rental: We will take your offer of picking us up at the airport on Monday July 9th.

You mentioned we will have safety training upon arrival on July 9th before heading to the field. Please let us know if there is anything else we need to be aware of.

Thank you very much for your help,

Estrella

-----Original Message-----

From: McCoy, Shane M CIV USARMY CEPOA (US)  
Sent: Monday, June 4, 2018 10:51 AM  
To: Campellone, Estrella F CIV USARMY CEPOA (US) <Estrella.F.Campellone@usace.army.mil>  
Cc: Tim Havey <timhavey@pebblepartnership.com>  
Subject: contact info

Estrella,  
Here is Tim's email.

Shane

Message

---

**From:** Vaughan, Molly [no-reply@sharepointonline.com]  
**Sent:** 5/24/2018 10:40:26 PM  
**To:** Douglas, Mark [douglas.mark@epa.gov]  
**CC:** Vaughan, Molly [Vaughan.Molly@epa.gov]  
**Subject:** Vaughan, Molly has invited you to 'Pebble Project Permitting Oversight and NEPA Review Team'

Hi Mark. Welcome to the Pebble Project Permitting Oversight and NEPA Review Team!  
Here is a link to the sharepoint site.--Molly

## Go to Pebble Project Permitting Oversight and NEPA Review Team

Follow this site to get updates in your newsfeed.



Get the SharePoint mobile app!



Message

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**From:** Vaughan, Molly [Vaughan.Molly@epa.gov]  
**Sent:** 11/2/2018 9:06:45 PM  
**To:** McGrath, Patricia [mcgrath.patricia@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]  
**Subject:** Please Review -- Pebble Ch 1 Purpose and Need

Patty, Mark and Palmer,

The Corps is also now accepting comments on Chapter 1 Purpose and Need. (this Chapter is only 3 pages long!). If you have any comments on this section, please also send those to me by COB 11/9.

Thank you,  
Molly

---

**From:** Vaughan, Molly  
**Sent:** Friday, November 02, 2018 1:02 PM  
**To:** McGrath, Patricia <mcgrath.patricia@epa.gov>; Douglas, Mark <douglas.mark@epa.gov>; Godsey, Cindi <Godsey.Cindi@epa.gov>; Barbara Butler (Butler.Barbara@epa.gov) <Butler.Barbara@epa.gov>; Hough, Palmer <Hough.Palmer@epa.gov>; Schofield, Kate <Schofield.Kate@epa.gov>  
**Subject:** Please Review -- Pebble Ch 2 Alternatives

Hello All,

I previously provided the draft Chapter 2 as an FYI, but the Corps has now said they will be accepting comments on this chapter, with a due date of 11/23. As you have been assisting in review of the various alternatives screening documents, I would appreciate your review of this section as well. In order to meet the comment deadline including time required for internal management review of the comments, please send me any comments you may have on Chapter 2 **by COB Friday 11/9**. (I apologize that this is a quick turnaround, but hope that you may have already begun looking over the document.)

Chapter 2 and the associated figures are available on the Sharepoint site, but please let me know if you are not able to access them or have any questions.

Thank you,  
Molly

~~~~~  
Molly Vaughan  
U.S. Environmental Protection Agency Region 10  
Alaska Operations Office  
222 W. 7<sup>th</sup> Avenue #19  
Anchorage, AK 99513-7588

907-271-1215  
[vaughan.molly@epa.gov](mailto:vaughan.molly@epa.gov)  
~~~~~

Message

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**From:** Chu, Rebecca [Chu.Rebecca@epa.gov]  
**Sent:** 11/2/2018 7:18:35 PM  
**To:** Nogi, Jill [nogi.jill@epa.gov]; LaCroix, Matthew [LaCroix.Matthew@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Thiesing, Mary [Thiesing.Mary@epa.gov]; Curtis, Jennifer [Curtis.Jennifer@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]  
**Subject:** PLEASE UPDATE THIS BRIEFING DOC!!! Chu, Rebecca shared "R10 ORA Briefing Paper and Talking Points Chris Meet and Greet with Col Borders" with you.

**Importance:** High

Hi All

Now that we are coordinating on TWO briefing docs for the RA- reminder that the One Drive doc below needs to be updated with the NEPA info by COB today. Please let me know if you don't have access to this doc. As a reminder- these talking points are being drafted for the RA for:

*11-16-18 Meeting of Chris H, RA and Col. Borders, DE, Alaska District, Corps of Engineers*

**Purpose of the meeting:** it's a meet-and-greet between the two senior leaders. Topics to cover: EPA and the Army MOA for Alaska District & Large NEPA Projects (ID'd in Jill's email below- Nanushuk, Pebble, Ambler, Willow and Coastal Plain)

**Talking Point Need:**

AK MOU Talking Points: The current draft talking points came from a discussion with David Allnutt. *Mark, Matt and Mary Anne:* please review and edit for accuracy. *Jennifer/Molly/Erik-* we also identified specific ongoing project where we'd like more coordination with the Corps on to support our "one federal decision" and aggressive timelines. Feel free to review those and edit for NEPA accuracy!

Large NEPA Projects Talking Points: NEPA team- we need your help in getting these sorted out. An idea- maybe you can use our last "MOU Talking Point" of wanting more coordination to support our "one federal decision" as a way to describe the specific large projects so it ties together?

**Process and Timeline to Complete the Talking Points:**

We need to have the talking points to the RA's office by 11-13. To meet this timeline:

- **Staff input on draft talking points- pretty much need this by COB today or 11/5 AM at the latest**
- HQ Coordination on programmatic level (for 404 program, Mary Anne lead; for NEPA, ???)- 11/5ish
- Jill/Rebecca Review- 11/5-11/6
- David and Linda review & edit - 11/7-11/9
- David/Linda submit to RA's office by 11/13

Please let me know if I have missed any steps in the review process.

Thanks!!

Rebecca Chu | Acting Unit Manager  
Aquatic Resources Unit  
United States Environmental Protection Agency  
Region 10  
1200 Sixth Ave Suite 900  
MS-140  
Seattle, WA 98101  
(206) 553-1774

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**From:** Nogi, Jill

**Sent:** Sunday, October 28, 2018 3:43 PM

**To:** Chu, Rebecca <Chu.Rebecca@epa.gov>; LaCroix, Matthew <LaCroix.Matthew@epa.gov>; Peterson, Erik <Peterson.Erik@epa.gov>; Thiesing, Mary <Thiesing.Mary@epa.gov>; Curtis, Jennifer <Curtis.Jennifer@epa.gov>; Vaughan, Molly <Vaughan.Molly@epa.gov>

**Subject:** RE: Chu, Rebecca shared "R10 ORA Briefing Paper and Talking Points Chris Meet and Greet with Col Borders" with you.

Hi Becky,

David and I talked on Friday about having bullet points ready for Chris to bring up with the Colonel regarding our efforts/thinking on Nanushuk, Pebble, Ambler, Willow and Coastal Plain – a number of the big NEPA projects in AK. The Corps is the lead on Pebble and Nanushuk and will be coordinating/collaborating with us regarding our 404/aquatic resource related comments on the BLM-led projects on the list. Jennifer Curtis is the lead point of contact for NEPA for Nanushuk and Molly Vaughan is the lead point of contact on the other projects. David had mentioned that he wanted to talk with Chris about everything we pull together prior to the 16<sup>th</sup>. If we've set 11/6 as the deadline to get it to David and Linda, I would ask that the NEPA leads please have bullet points/talking points ready for me to take a look by Friday 11/2 – and I can help add points to this as well, if needed, by the 6<sup>th</sup>.

Please also share your one drive link with Molly and Jennifer – Erik is working on the 404(c) team effort but isn't working on the NEPA EIS review, which would be separate talking points for Chris, if we wanted to bring up both. Thanks everyone – we'll be in good shape getting everything together in plenty of time! Your help in developing this is much appreciated. I'm still home sick – so won't be in on Monday but can catch up with folks (hopefully) Tuesday or later.

Jill

---

**From:** Chu, Rebecca

**Sent:** Friday, October 26, 2018 2:53 PM

**To:** LaCroix, Matthew <LaCroix.Matthew@epa.gov>; Peterson, Erik <Peterson.Erik@epa.gov>; Thiesing, Mary <Thiesing.Mary@epa.gov>; Nogi, Jill <nogi.jill@epa.gov>

**Subject:** Chu, Rebecca shared "R10 ORA Briefing Paper and Talking Points Chris Meet and Greet with Col Borders" with you.

All

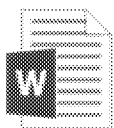
The RA is meeting with the new District Engineer at the Alaska District on 11-16. David has asked us to put together some talking points for the RA, and we're going to get these to David and Linda by 11-6. I understand that David spoke with Jill re: talking points specific to Bristol Bay. So including Jill and Eric if they'd like to join ARU in what we're putting together for Linda/David and the RA.

Matt & Mary Anne- my notes are from our discussions. Feel free to reframe and clean up.



This link only works for the direct recipients of this message.





## R10 ORA Briefing Paper and Talking Points Chris Meet and Greet with Col Borders

Open



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Microsoft Corporation, One Microsoft Way, Redmond, WA 98052

Message

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**From:** Muche, Muluken [Muche.Muluken@epa.gov]  
**Sent:** 7/11/2018 2:19:42 PM  
**To:** Vaughan, Molly [Vaughan.Molly@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Maley, Timothy [maley.timothy@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]  
**Subject:** RE: Pebble Chapter 3.16 and 3.26 now on Sharepoint site  
**Attachments:** MM Review Comments \_PreDraft\_Sec3.16\_SurfaceWater.docx

Good morning,

My review comments for Surface Water Hydrology section is attached.

Thanks,  
Muluken

---

**From:** Vaughan, Molly  
**Sent:** Wednesday, June 27, 2018 1:45 PM  
**To:** McGrath, Patricia <mcgrath.patricia@epa.gov>; Hough, Palmer <Hough.Palmer@epa.gov>; Maley, Timothy <maley.timothy@epa.gov>; Douglas, Mark <douglas.mark@epa.gov>; Muche, Muluken <Muche.Muluken@epa.gov>  
**Subject:** Pebble Chapter 3.16 and 3.26 now on Sharepoint site

Good morning,

The Corps has finally sent us the missing word documents for Section 3.16 Surface Water Hydrology and 3.26 Vegetation, and I have added those documents to the sharepoint site. They did not provide a new due date for these delayed sections, but have requested comments as soon as possible. I will try to confirm a deadline by our team meeting tomorrow. But, in the meantime, please begin your review as soon as you are able.

Thank you,  
Molly

---

**From:** Vaughan, Molly  
**Sent:** Thursday, June 07, 2018 11:13 AM  
**To:** McGrath, Patricia <mcgrath.patricia@epa.gov>; Godsey, Cindi <Godsey.Cindi@epa.gov>; Pepple, Karl <Pepple.Karl@epa.gov>; McAlpine, Jerrold <McAlpine.Jay@epa.gov>; Palomaki, Ashley <Palomaki.Ashley@epa.gov>; Wake, Neverley <wake.neverley@epa.gov>; Hough, Palmer <Hough.Palmer@epa.gov>; Schofield, Kate <Schofield.Kate@epa.gov>; Maley, Timothy <maley.timothy@epa.gov>; Eckley, Chris <Eckley.Chris@epa.gov>; Barton, Justine <Barton.Justine@epa.gov>; Douglas, Mark <douglas.mark@epa.gov>; Muche, Muluken <muche.muluken@epa.gov>  
**Subject:** REVIEW REQUEST and additional documents loaded to Sharepoint

Hello Team,

The Corps distributed some additional information to cooperating agencies related to yesterday's Cooperating Agency meeting here in Anchorage, and I have added these materials to the Sharepoint site, in the "Materials for 6-6-18 Cooperating Agency Meeting" folder. Most of the information is for awareness only, but our review has been requested on two items:

- 1) the Preliminary Scoping Report

Internal Website / Ex. 6

- 2) selected sections of Pre-Draft Chapter 3

Internal Website / Ex. 6

Your review is being requested on specific materials (listed below), but feel free to also review the remainder of the materials if you wish.

- Preliminary Scoping Report: **Molly/Patty** – comments due to Molly **June 20**  
This document addresses scoping comments received to date, but will be updated following the close of the public scoping period.
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These documents are first drafts of each resource section Affected Environment, and will also be updated following the close of public scoping and based on cooperating agency input. It is not clear whether cooperators will have an opportunity to review a second iteration prior to publication of the Draft EIS, so a thorough review at this stage is critical.

The Corps has requested that our review focus on what is missing or any inaccuracies (don't worry about formatting, grammar, etc.). Where we identify something missing/innacurate, we are asked to be very specific in our recommendation. If you identify missing information in your review, first check the RFIs and Responses to Date

**Internal Website / Ex. 6**

If there is a RFI/response that addresses your concern, then please note that in your comment. If not, then please include in your comment: (1) the information gap, (2) a reference where additional information can be found, and (3) what from that reference should be added, with as much specificity as possible – suggested text would be helpful.

Please identify the sub-section and page number for each of your comments.

Here are specific assignments for the review request. Most sections include a word document as well as some associated figures in pdf form.

- 3.1 Intro – **Molly**
- 3.5 Recreation – **Mark/Palmer/Molly**
- 3.11 Aesthetics – **Mark/Palmer/Molly**
- 3.14 Soils – **Mark/Palmer**
- 3.16 Surface Water Hydrology (note, we received figures but not text, and are following up) – **Tim/Mark/Palmer/Muluken**
- 3.17 Groundwater Hydrology – **Tim/Mark/Palmer/Muluken**
- 3.18 Water and Sediment Quality – **Cindi/Tim/Chris**
- 3.22 Wetlands/ Special Aquatic Sites – **Mark/Palmer**
- 3.26 Vegetation (note, we received figures but not text, and are following up) – **Mark/Palmer**

Please let me know if you have any questions. Thank you for your assistance with this review.

Regards,  
Molly

~~~~~  
Molly Vaughan  
U.S. Environmental Protection Agency Region 10  
Alaska Operations Office  
222 W. 7<sup>th</sup> Avenue #19  
Anchorage, AK 99513-7588

907-271-1215

[vaughan.molly@epa.gov](mailto:vaughan.molly@epa.gov)  
~~~~~

---

**From:** Vaughan, Molly

**Sent:** Thursday, May 24, 2018 2:47 PM

**To:** McGrath, Patricia <[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)>; Meade, Christopher <[Meade.Chris@epa.gov](mailto:Meade.Chris@epa.gov)>; Godsey, Cindi <[Godsey.Cindi@epa.gov](mailto:Godsey.Cindi@epa.gov)>; Pepple, Karl <[Pepple.Karl@epa.gov](mailto:Pepple.Karl@epa.gov)>; McAlpine, Jerrold <[McAlpine.Jay@epa.gov](mailto:McAlpine.Jay@epa.gov)>; Palomaki, Ashley <[Palomaki.Ashley@epa.gov](mailto:Palomaki.Ashley@epa.gov)>; Wake, Neverley <[wake.neverley@epa.gov](mailto:wake.neverley@epa.gov)>; Hough, Palmer <[Hough.Palmer@epa.gov](mailto:Hough.Palmer@epa.gov)>; Schofield, Kate <[Schofield.Kate@epa.gov](mailto:Schofield.Kate@epa.gov)>; Maley, Timothy <[maley.timothy@epa.gov](mailto:maley.timothy@epa.gov)>; Eckley, Chris <[Eckley.Chris@epa.gov](mailto:Eckley.Chris@epa.gov)>; Barton, Justine <[Barton.Justine@epa.gov](mailto:Barton.Justine@epa.gov)>; Douglas, Mark <[douglas.mark@epa.gov](mailto:douglas.mark@epa.gov)>

**Subject:** RE: Pebble NEPA/permitting team - documents for awareness review

Hi All,

All of the materials received from the Corps to date are now on the Sharepoint site, in a folder labeled "Materials for 6-6-18 Cooperating Agency Meeting," for your perusal if interested.

Internal Website / Ex. 6

Regards,  
Molly

---

**From:** McGrath, Patricia

**Sent:** Friday, May 18, 2018 11:29 AM

**To:** Vaughan, Molly <[Vaughan.Molly@epa.gov](mailto:Vaughan.Molly@epa.gov)>; LaCroix, Matthew <[LaCroix.Matthew@epa.gov](mailto:LaCroix.Matthew@epa.gov)>; Meade, Christopher <[Meade.Chris@epa.gov](mailto:Meade.Chris@epa.gov)>; Godsey, Cindi <[Godsey.Cindi@epa.gov](mailto:Godsey.Cindi@epa.gov)>; Pepple, Karl <[Pepple.Karl@epa.gov](mailto:Pepple.Karl@epa.gov)>; McAlpine, Jerrold <[McAlpine.Jay@epa.gov](mailto:McAlpine.Jay@epa.gov)>; Palomaki, Ashley <[Palomaki.Ashley@epa.gov](mailto:Palomaki.Ashley@epa.gov)>; Wake, Neverley <[wake.neverley@epa.gov](mailto:wake.neverley@epa.gov)>; Hough, Palmer <[Hough.Palmer@epa.gov](mailto:Hough.Palmer@epa.gov)>; Schofield, Kate <[Schofield.Kate@epa.gov](mailto:Schofield.Kate@epa.gov)>; Maley, Timothy <[maley.timothy@epa.gov](mailto:maley.timothy@epa.gov)>; Eckley, Chris <[Eckley.Chris@epa.gov](mailto:Eckley.Chris@epa.gov)>; Barton, Justine <[Barton.Justine@epa.gov](mailto:Barton.Justine@epa.gov)>; Douglas, Mark <[douglas.mark@epa.gov](mailto:douglas.mark@epa.gov)>

**Subject:** Pebble NEPA/permitting team - documents for awareness review

Pebble NEPA/permitting team –

The Corps has started sending us, and other cooperating agencies, information generated by PLP and the third-party EIS contractor (AECOM). This information includes AECOM's requests (to PLP) for additional information (RFAs) and PLP's responses. The Corps has begun adding these RFAs to the public EIS website. Molly and I will add this information to our SharePoint site as well.

The Corps has submitted this information to us and requested an awareness review, but is not requesting written comments.

For now, I want to bring your attention to two documents, attached:

1 – PLP Updates to the Proposed Project - PLP has made some updates to the project description. Please review this document so that you are aware of the changes. Some of these changes could impact parts of our scoping letter (e.g., use of lightering and elimination of dredging).

2 – PLP Technical Note on Project Options and Screening Criteria – This document summarizes screening criteria and options used by PLP to develop its current project description. I expect the Corps will consider this information during alternatives development. Please review this document for awareness.

We will discuss these documents during our next team meeting on May 24, and I can provide more context. In the meantime, please let me know if you have questions.

Thanks-  
Patty

**Patty McGrath | Mining Advisor**

U.S. Environmental Protection Agency, Region 10

1200 Sixth Avenue, Seattle, WA 98101

M/S: RAD-202

Office: (206) 553-6113

Cell: (206) 743-7068

[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)

Message

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**Sent:** 7/10/2018 8:17:43 PM  
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**Subject:** RE: Pebble Chapter 3.16 and 3.26 now on Sharepoint site  
**Attachments:** TM Comments on PreDraft Sec3.16 SW resources 7-10-18.docx

Attached is my review comments associated with Section 3.16 SW Resources.

tm

*Tim Maley, PG*  
EPA-R10/OERA  
O: 206-553-1210

---

**From:** Vaughan, Molly  
**Sent:** Wednesday, June 27, 2018 10:45 AM  
**To:** McGrath, Patricia <mcgrath.patricia@epa.gov>; Hough, Palmer <Hough.Palmer@epa.gov>; Maley, Timothy <maley.timothy@epa.gov>; Douglas, Mark <douglas.mark@epa.gov>; Muche, Muluken <Muche.Muluken@epa.gov>  
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Internal Website / Ex. 6

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**Internal Website / Ex. 6**

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Regards,  
Molly

~~~~~  
Molly Vaughan  
U.S. Environmental Protection Agency Region 10  
Alaska Operations Office  
222 W. 7<sup>th</sup> Avenue #19  
Anchorage, AK 99513-7588

907-271-1215

[vaughan.molly@epa.gov](mailto:vaughan.molly@epa.gov)  
~~~~~

---

**From:** Vaughan, Molly

**Sent:** Thursday, May 24, 2018 2:47 PM

**To:** McGrath, Patricia <[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)>; Meade, Christopher <[Meade.Chris@epa.gov](mailto:Meade.Chris@epa.gov)>; Godsey, Cindi <[Godsey.Cindi@epa.gov](mailto:Godsey.Cindi@epa.gov)>; Pepple, Karl <[Pepple.Karl@epa.gov](mailto:Pepple.Karl@epa.gov)>; McAlpine, Jerrold <[McAlpine.Jay@epa.gov](mailto:McAlpine.Jay@epa.gov)>; Palomaki, Ashley <[Palomaki.Ashley@epa.gov](mailto:Palomaki.Ashley@epa.gov)>; Wake, Neverley <[wake.neverley@epa.gov](mailto:wake.neverley@epa.gov)>; Hough, Palmer <[Hough.Palmer@epa.gov](mailto:Hough.Palmer@epa.gov)>; Schofield, Kate <[Schofield.Kate@epa.gov](mailto:Schofield.Kate@epa.gov)>; Maley, Timothy <[maley.timothy@epa.gov](mailto:maley.timothy@epa.gov)>; Eckley, Chris <[Eckley.Chris@epa.gov](mailto:Eckley.Chris@epa.gov)>; Barton, Justine <[Barton.Justine@epa.gov](mailto:Barton.Justine@epa.gov)>; Douglas, Mark <[douglas.mark@epa.gov](mailto:douglas.mark@epa.gov)>

**Subject:** RE: Pebble NEPA/permitting team - documents for awareness review

Hi All,

All of the materials received from the Corps to date are now on the Sharepoint site, in a folder labeled "Materials for 6-6-18 Cooperating Agency Meeting," for your perusal if interested.

Internal Website / Ex. 6

Regards,  
Molly

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**From:** McGrath, Patricia

**Sent:** Friday, May 18, 2018 11:29 AM

**To:** Vaughan, Molly <[Vaughan.Molly@epa.gov](mailto:Vaughan.Molly@epa.gov)>; LaCroix, Matthew <[LaCroix.Matthew@epa.gov](mailto:LaCroix.Matthew@epa.gov)>; Meade, Christopher <[Meade.Chris@epa.gov](mailto:Meade.Chris@epa.gov)>; Godsey, Cindi <[Godsey.Cindi@epa.gov](mailto:Godsey.Cindi@epa.gov)>; Pepple, Karl <[Pepple.Karl@epa.gov](mailto:Pepple.Karl@epa.gov)>; McAlpine, Jerrold <[McAlpine.Jay@epa.gov](mailto:McAlpine.Jay@epa.gov)>; Palomaki, Ashley <[Palomaki.Ashley@epa.gov](mailto:Palomaki.Ashley@epa.gov)>; Wake, Neverley <[wake.neverley@epa.gov](mailto:wake.neverley@epa.gov)>; Hough, Palmer <[Hough.Palmer@epa.gov](mailto:Hough.Palmer@epa.gov)>; Schofield, Kate <[Schofield.Kate@epa.gov](mailto:Schofield.Kate@epa.gov)>; Maley, Timothy <[maley.timothy@epa.gov](mailto:maley.timothy@epa.gov)>; Eckley, Chris <[Eckley.Chris@epa.gov](mailto:Eckley.Chris@epa.gov)>; Barton, Justine <[Barton.Justine@epa.gov](mailto:Barton.Justine@epa.gov)>; Douglas, Mark <[douglas.mark@epa.gov](mailto:douglas.mark@epa.gov)>

**Subject:** Pebble NEPA/permitting team - documents for awareness review

Pebble NEPA/permitting team –

The Corps has started sending us, and other cooperating agencies, information generated by PLP and the third-party EIS contractor (AECOM). This information includes AECOM's requests (to PLP) for additional information (RFAs) and PLP's responses. The Corps has begun adding these RFAs to the public EIS website. Molly and I will add this information to our SharePoint site as well.

The Corps has submitted this information to us and requested an awareness review, but is not requesting written comments.

For now, I want to bring your attention to two documents, attached:

1 – PLP Updates to the Proposed Project - PLP has made some updates to the project description. Please review this document so that you are aware of the changes. Some of these changes could impact parts of our scoping letter (e.g., use of lightering and elimination of dredging).

2 – PLP Technical Note on Project Options and Screening Criteria – This document summarizes screening criteria and options used by PLP to develop its current project description. I expect the Corps will consider this information during alternatives development. Please review this document for awareness.

We will discuss these documents during our next team meeting on May 24, and I can provide more context. In the meantime, please let me know if you have questions.



Thanks-  
Patty

**Patty McGrath | Mining Advisor**

U.S. Environmental Protection Agency, Region 10

1200 Sixth Avenue, Seattle, WA 98101

M/S: RAD-202

Office: (206) 553-6113

Cell: (206) 743-7068

[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)

## Appointment

---

**From:** McGrath, Patricia [mcgrath.patricia@epa.gov]  
**Sent:** 5/18/2018 7:39:20 PM  
**To:** Douglas, Mark [douglas.mark@epa.gov]; Schofield, Kate [Schofield.Kate@epa.gov]

**Subject:** FW: Pebble permit oversight/NEPA team  
**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Start:** 2/22/2018 9:00:00 PM  
**End:** 2/22/2018 10:00:00 PM  
**Show Time As:** Tentative

**Recurrence:** Monthly  
the fourth Thursday of every 1 month(s) from 1:00 PM to 2:00 PM

-----Original Appointment-----

**From:** McGrath, Patricia  
**Sent:** Thursday, February 15, 2018 10:54 AM  
**To:** McGrath, Patricia; Molly Vaughan ([Vaughan.Molly@epa.gov](mailto:Vaughan.Molly@epa.gov)); Matthew LaCroix ([LaCroix.Matthew@epa.gov](mailto:LaCroix.Matthew@epa.gov)); Christopher Meade ([Meade.Chris@epa.gov](mailto:Meade.Chris@epa.gov)); Cindi Godsey ([Godsey.Cindi@epa.gov](mailto:Godsey.Cindi@epa.gov)); Karl Pepple ([Pepple.Karl@epa.gov](mailto:Pepple.Karl@epa.gov)); Jay McAlpine ([McAlpine.Jay@epa.gov](mailto:McAlpine.Jay@epa.gov)); Ashley Palomaki ([Palomaki.Ashley@epa.gov](mailto:Palomaki.Ashley@epa.gov)); Neverley Shoemake ([shoemake.neverley@epa.gov](mailto:shoemake.neverley@epa.gov)); Palmer Hough ([Hough.Palmer@epa.gov](mailto:Hough.Palmer@epa.gov)); Timothy Maley ([maley.timothy@epa.gov](mailto:maley.timothy@epa.gov)); Chris Eckley ([Eckley.Chris@epa.gov](mailto:Eckley.Chris@epa.gov))  
**Cc:** Douglas, Mark  
**Subject:** Pebble permit oversight/NEPA team  
**When:** Occurs the fourth Thursday of every 1 month(s) effective 2/22/2018 until 11/22/2018 from 1:00 PM to 2:00 PM (UTC-08:00) Pacific Time (US & Canada).  
**Where:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Conference Line/Code / Ex. 6**

Monthly Pebble permit oversight/NEPA team meeting  
Agenda to be sent out before each meeting

## Appointment

---

**From:** LaCroix, Matthew [LaCroix.Matthew@epa.gov]  
**Sent:** 5/18/2018 7:28:56 PM  
**To:** Douglas, Mark [douglas.mark@epa.gov]

**Subject:** FW: Pebble permit oversight/NEPA team  
**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Start:** 7/22/2018 8:00:00 PM  
**End:** 7/22/2018 9:00:00 PM  
**Show Time As:** Tentative

**Recurrence:** Monthly  
the fourth Thursday of every 1 month(s) from 1:00 PM to 2:00 PM

-----Original Appointment-----

**From:** McGrath, Patricia  
**Sent:** Thursday, February 15, 2018 9:55 AM  
**To:** McGrath, Patricia; Vaughan, Molly; LaCroix, Matthew; Meade, Christopher; Pepple, Karl; McAlpine, Jerrold; Palomaki, Ashley; Shoemake, Neverley; Hough, Palmer; Maley, Timothy; Eckley, Chris; Wake, Neverley  
**Subject:** Pebble permit oversight/NEPA team  
**When:** Sunday, July 22, 2018 1:00 PM-2:00 PM (UTC-08:00) Pacific Time (US & Canada).  
**Where:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

## Appointment

---

**From:** LaCroix, Matthew [LaCroix.Matthew@epa.gov]  
**Sent:** 5/18/2018 7:28:55 PM  
**To:** Douglas, Mark [douglas.mark@epa.gov]

**Subject:** FW: Pebble permit oversight/NEPA team  
**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Start:** 9/22/2018 8:00:00 PM  
**End:** 9/22/2018 9:00:00 PM  
**Show Time As:** Tentative

**Recurrence:** Monthly  
the fourth Thursday of every 1 month(s) from 1:00 PM to 2:00 PM

-----Original Appointment-----

**From:** McGrath, Patricia  
**Sent:** Thursday, February 15, 2018 9:55 AM  
**To:** McGrath, Patricia; Vaughan, Molly; LaCroix, Matthew; Meade, Christopher; Pepple, Karl; McAlpine, Jerrold; Palomaki, Ashley; Shoemake, Neverley; Hough, Palmer; Maley, Timothy; Eckley, Chris; Wake, Neverley  
**Subject:** Pebble permit oversight/NEPA team  
**When:** Saturday, September 22, 2018 1:00 PM-2:00 PM (UTC-08:00) Pacific Time (US & Canada).  
**Where:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

## Appointment

---

**From:** LaCroix, Matthew [LaCroix.Matthew@epa.gov]  
**Sent:** 5/18/2018 7:28:53 PM  
**To:** Douglas, Mark [douglas.mark@epa.gov]

**Subject:** FW: Pebble permit oversight/NEPA team  
**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Start:** 12/22/2018 9:00:00 PM  
**End:** 12/22/2018 10:00:00 PM  
**Show Time As:** Tentative

**Recurrence:** Monthly  
the fourth Thursday of every 1 month(s) from 1:00 PM to 2:00 PM

-----Original Appointment-----

**From:** McGrath, Patricia  
**Sent:** Thursday, February 15, 2018 9:55 AM  
**To:** McGrath, Patricia; Vaughan, Molly; LaCroix, Matthew; Meade, Christopher; Pepple, Karl; McAlpine, Jerrold; Palomaki, Ashley; Shoemake, Neverley; Hough, Palmer; Maley, Timothy; Eckley, Chris; Wake, Neverley  
**Subject:** Pebble permit oversight/NEPA team  
**When:** Saturday, December 22, 2018 1:00 PM-2:00 PM (UTC-08:00) Pacific Time (US & Canada).  
**Where:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

## Appointment

---

**From:** McGrath, Patricia [mcgrath.patricia@epa.gov]  
**Sent:** 10/23/2018 12:20:59 AM  
**To:** Wake, Neverley [wake.neverley@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; LaCroix, Matthew [LaCroix.Matthew@epa.gov]; Christopher Meade (Meade.Chris@epa.gov) [Meade.Chris@epa.gov]; Godsey, Cindi [Godsey.Cindi@epa.gov]; Pepple, Karl [Pepple.Karl@epa.gov]; McAlpine, Jerrold [McAlpine.Jay@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Maley, Timothy [maley.timothy@epa.gov]; Eckley, Chris [Eckley.Chris@epa.gov]; Butler, Barbara [Butler.Barbara@epa.gov]; R10IOO-

**Conference Line/Code / Ex. 6**

**CC:** Douglas, Mark [douglas.mark@epa.gov]; Schofield, Kate [Schofield.Kate@epa.gov]; Thiesing, Mary [Thiesing.Mary@epa.gov]

**Subject:** Pebble permit oversight/NEPA team  
**Location:** R10Sea-Room-14WallaWalla/R10-Rooms-Service-Center

**Start:** 10/25/2018 9:00:00 PM  
**End:** 10/25/2018 10:00:00 PM  
**Show Time As:** Tentative

**Recurrence:** Monthly  
the fourth Thursday of every 1 month(s) from 1:00 PM to 2:00 PM

Pebble permit team meeting

Hi all, I moved this meeting out by an hour due to a conflict that Molly and I have with another meeting. Also, note the change in meeting location (14- Walla Walla)

**Conference Line/Code / Ex. 6**

### Agenda

- Updated project description available
- EIS section reviews
  - o Current – dry stack, intro to sections 3 and 4
  - o Upcoming – revised sections of chapters 3 and 4
- Report on 10/24 cooperating agency meeting

## Appointment

---

**From:** Palomaki, Ashley [Palomaki.Ashley@epa.gov]  
**Sent:** 7/5/2018 9:42:00 PM  
**To:** Vaughan, Molly [Vaughan.Molly@epa.gov]; McGrath, Patricia [mcgrath.patricia@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Fordham, Tami [Fordham.Tami@epa.gov]; R10Sea-

**Conference**

**Conference Line/Code / Ex. 6**

**Subject:** Prep for AOO Director Bristol Bay Overview  
**Attachments:** BB Presentation\_1282018\_pm\_ACP.pptx; Bristol Bay Script - Tomiak brief\_ACP\_pm.docx  
**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center  
**Start:** 7/9/2018 6:00:00 PM  
**End:** 7/9/2018 6:30:00 PM  
**Show Time As:** Tentative

Hi –

Attached is the most recent Bristol Bay presentation and script (this was used for OFA in January). The section on Pebble's permit application will need to be updated and we'll need to figure out who's doing what.

**Conference Line/Code /  
Ex. 6**

Thanks,

Ashley

## Appointment

---

**From:** Fordham, Tami [Fordham.Tami@epa.gov]  
**Sent:** 7/5/2018 8:17:24 PM  
**To:** McGrath, Patricia [mcgrath.patricia@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]; Detwiler, Susan K. [detwiler.susan@epa.gov]; **Conference Line/Code / Ex. 6**  
**Conference Line/Code / Ex. 6**  
**CC:** Vaughan, Molly [Vaughan.Molly@epa.gov]; Anderson-Carnahan, Linda [Anderson-Carnahan.Linda@epa.gov]; Peterson, Erik [Peterson.Erik@epa.gov]; Steiner-Riley, Cara [Steiner-Riley.Cara@epa.gov]  
**Subject:** Pebble Overview for AOO Director  
**Location:** R10AOO-Room-Raven-25-VTC/R10-Rooms-AOO; R10Sea-Room-14WallaWalla/R10-Rooms-Service-Center  
**Start:** 7/23/2018 6:00:00 PM  
**End:** 7/23/2018 7:00:00 PM  
**Show Time As:** Tentative

Sue and I will be in Seattle, looking forward to seeing most of you in person. Thanks! Tami

---

### → Join Skype Meeting

This is an online meeting for Skype for Business, the professional meetings and communications app formerly known as Lync.

### Join by Phone

**Conference Line/Code / Ex. 6**

[Help](#)

---



Appointment

---

**From:** LaCroix, Matthew [LaCroix.Matthew@epa.gov]  
**Sent:** 5/18/2018 7:28:09 PM  
**To:** Douglas, Mark [douglas.mark@epa.gov]

**Subject:** FW: Bristol Bay Check-in

**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center;

Conference Line/Code / Ex. 6

**Start:** 2/14/2018 5:00:00 PM

**End:** 2/14/2018 6:00:00 PM

**Show Time As:** Tentative

**Recurrence:** Weekly  
every 2 week(s) on Wednesday from 9:00 AM to 10:00 AM

Mark,

Hopefully you will receive the entire series.

-----Original Appointment-----

**From:** R10-OERA Calendar

**Sent:** Monday, February 5, 2018 9:13 AM

**To:** R10-OERA Calendar; Allnutt, David; Anderson-Carnahan, Linda; McGrath, Patricia; Palomaki, Ashley; Steiner-Riley, Cara; Lindsay, Andrea; Skadowski, Suzanne; Nogi, Jill; LaCroix, Matthew; Vaughan, Molly; Hough, Palmer; Peterson, Erik; Nalven, Heidi; Fordham, Tami; Combes, Marcia; Mendelman, Krista; Szerlog, Michael

**Cc:** Stern, Allyn

**Subject:** Bristol Bay Check-in

**When:** Occurs every 2 week(s) on Wednesday effective 2/14/2018 until 6/8/2018 from 9:00 AM to 10:00 AM (UTC-08:00) Pacific Time (US & Canada).

**Where:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center;

Conference Line/Code / Ex. 6

Conference Line/Code / Ex. 6

Message

---

**From:** Godsey, Cindi [Godsey.Cindi@epa.gov]  
**Sent:** 10/22/2018 2:03:30 PM  
**To:** McGrath, Patricia [mcgrath.patricia@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]  
**CC:** Vaughan, Molly [Vaughan.Molly@epa.gov]  
**Subject:** RE: Pebble review request

Patty,

Not sure I can finish by the 24<sup>th</sup> but will be done by COB on the 25<sup>th</sup>. Hope this can work for you.

---

**From:** McGrath, Patricia  
**Sent:** Thursday, October 18, 2018 4:59 PM  
**To:** Godsey, Cindi <Godsey.Cindi@epa.gov>; Douglas, Mark <douglas.mark@epa.gov>  
**Cc:** Vaughan, Molly <Vaughan.Molly@epa.gov>  
**Subject:** Pebble review request

Hi Cindi and Mark-

We have another short turn around review on a draft section of the Pebble EIS.

Attached is draft Section 4.1, which is the introduction to the Environmental Consequences section. The Corps has requested comments by 10/31. This section identifies past, present, and reasonably foreseeable future actions that will be considered in the cumulative effects analysis in subsequent chapters. We especially appreciate your review of the actions identified and whether there are others that could be missing.

The Corps has requested comments by 10/31. In order to meet this deadline and have management review, if you have time to look at this section, then please send Molly and I comments by COB 10/24.

Let us know if you have questions.

Thanks - Patty

**Patty McGrath | Mining Advisor**  
U.S. Environmental Protection Agency, Region 10  
1200 Sixth Avenue, Seattle, WA 98101  
M/S: RAD-202  
Office: (206) 553-6113  
Cell: (206) 743-7068  
[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)

Message

---

**From:** McGrath, Patricia [mcgrath.patricia@epa.gov]  
**Sent:** 10/18/2018 11:58:34 PM  
**To:** Godsey, Cindi [Godsey.Cindi@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]  
**CC:** Vaughan, Molly [Vaughan.Molly@epa.gov]  
**Subject:** Pebble review request  
**Attachments:** Sec4.1\_IntroEC\_reviewdraft\_2018.10.16.docx

Hi Cindi and Mark-

We have another short turn around review on a draft section of the Pebble EIS.

Attached is draft Section 4.1, which is the introduction to the Environmental Consequences section. The Corps has requested comments by 10/31. This section identifies past, present, and reasonably foreseeable future actions that will be considered in the cumulative effects analysis in subsequent chapters. We especially appreciate your review of the actions identified and whether there are others that could be missing.

The Corps has requested comments by 10/31. In order to meet this deadline and have management review, if you have time to look at this section, then please send Molly and I comments by COB 10/24.

Let us know if you have questions.

Thanks - Patty

**Patty McGrath | Mining Advisor**

U.S. Environmental Protection Agency, Region 10

1200 Sixth Avenue, Seattle, WA 98101

M/S: RAD-202

Office: (206) 553-6113

Cell: (206) 743-7068

[mcgrath.patricia@epa.gov](mailto:mcgrath.patricia@epa.gov)

Message

---

**From:** Thiesing, Mary [Thiesing.Mary@epa.gov]  
**Sent:** 5/7/2018 10:57:15 PM  
**To:** LaCroix, Matthew [LaCroix.Matthew@epa.gov]; Douglas, Mark [douglas.mark@epa.gov]  
**Subject:** Fact Sheets

Hey guys,

Are there any up to date fact sheets (or even short, Hot-Topics like blurbs) on any of the following projects?

Donlin  
Pebble  
ASAP  
AKLNG

If so, would you please send them to me, and if not, can you let me know? I will be briefing Linda A-C in preparation for the National meeting and need to know what materials exist and what I will need to put together. Thanks.

Mary Anne Thiesing  
Regional Wetland Ecologist  
(206) 553-6114  
(206) 375-4772 (cell)  
thiesing.mary@epa.gov

## Appointment

---

**From:** McGrath, Patricia [mcgrath.patricia@epa.gov]  
**Sent:** 8/23/2018 7:41:59 PM  
**To:** Maley, Timothy [maley.timothy@epa.gov]; Wake, Neverley [wake.neverley@epa.gov]; Vaughan, Molly [Vaughan.Molly@epa.gov]; LaCroix, Matthew [LaCroix.Matthew@epa.gov]; Meade, Christopher [Meade.Chris@epa.gov]; Godsey, Cindi [Godsey.Cindi@epa.gov]; Pepple, Karl [Pepple.Karl@epa.gov]; McAlpine, Jerrold [McAlpine.Jay@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Eckley, Chris [Eckley.Chris@epa.gov]  
**CC:** Douglas, Mark [douglas.mark@epa.gov]; Schofield, Kate [Schofield.Kate@epa.gov]; Thiesing, Mary [Thiesing.Mary@epa.gov]

**Subject:** Pebble permit oversight/NEPA team  
**Location:** R10Sea-Room-14WallaWalla/R10-Rooms-Service-Center

**Start:** 8/23/2018 8:00:00 PM  
**End:** 8/23/2018 9:00:00 PM  
**Show Time As:** Tentative

**Recurrence:** Monthly  
the fourth Thursday of every 1 month(s) from 1:00 PM to 2:00 PM

### Updated meeting room location – 14 Walla Walla

#### Agenda:

- 7/31 project site visit
- Status of review of EIS sections
- Summary of 8/22 cooperating agency meeting (alternatives discussion)
- Next steps and schedule

**Conference Line/Code / Ex. 6**

Monthly Pebble permit oversight/NEPA team meeting  
Agenda to be sent out before each meeting

## Appointment

---

**From:** McGrath, Patricia [mcgrath.patricia@epa.gov]  
**Sent:** 9/26/2018 6:52:26 PM  
**To:** Vaughan, Molly [Vaughan.Molly@epa.gov]; Godsey, Cindi [Godsey.Cindi@epa.gov]; Pepple, Karl [Pepple.Karl@epa.gov]; McAlpine, Jerrold [McAlpine.Jay@epa.gov]; Palomaki, Ashley [Palomaki.Ashley@epa.gov]; Hough, Palmer [Hough.Palmer@epa.gov]; Maley, Timothy [maley.timothy@epa.gov]; Eckley, Chris [Eckley.Chris@epa.gov]; Wake, Neverley [wake.neverley@epa.gov]; Butler, Barbara [Butler.Barbara@epa.gov]  
**CC:** Douglas, Mark [douglas.mark@epa.gov]; Schofield, Kate [Schofield.Kate@epa.gov]; Thiesing, Mary [Thiesing.Mary@epa.gov]  
**Subject:** Pebble permit oversight/NEPA team  
**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center  
**Start:** 9/27/2018 8:00:00 PM  
**End:** 9/27/2018 9:00:00 PM  
**Show Time As:** Tentative

**Recurrence:** Monthly  
the fourth Thursday of every 1 month(s) from 1:00 PM to 2:00 PM

Hi all- Here is the agenda for our meeting tomorrow. Feel free to suggest additional topics

### AGENDA

- Litigation hold
- NEPA documents under review
  - o Alternatives
- Schedule for upcoming document reviews
- Additional topics

**Conference Line/Code / Ex. 6**

Monthly Pebble permit oversight/NEPA team meeting  
Agenda to be sent out before each meeting